

SUPER STORM SANDY *Response and Recovery*

STATE OF CONNECTICUT DEPARTMENT OF HOUSING COMMUNITY DEVELOPMENT BLOCK GRANT DISASTER RECOVERY PROGRAM

OWNER OCCUPIED REHABILITATION
AND REBUILDING PROGRAM (OORR)

GOVERNOR OF CONNECTICUT:
DANNEL P. MALLOY



COMMISSIONER OF HOUSING:
EVONNE M. KLEIN

APPLICATION NO. 5001

WERNER RESIDENCE

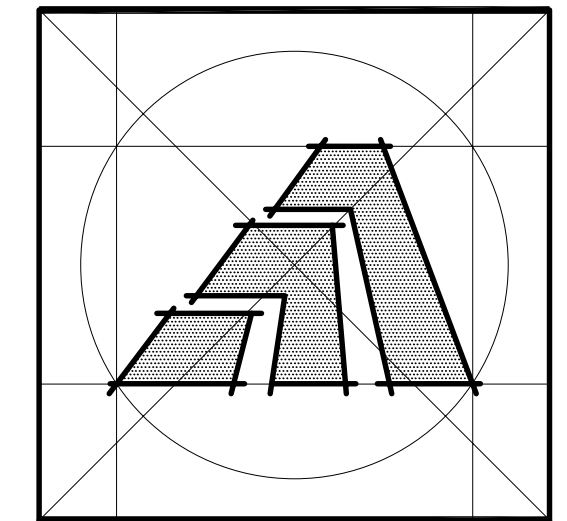
34 ELAINE ROAD

MILFORD, CONNECTICUT 06460

JANUARY 09, 2015



ARCHITECT:



Amaya Architects
American Institute of Architects

284 RACEBROOK RD. TEL (203) 795 5656
ORANGE, CT 06477 FAX (203) 799 3871

S.M.E.P. ENGINEER:



Loureiro Engineering Associates, Inc.
100 Northwest Drive
Plainville, Connecticut 06062
Phone: 860-747-6181 / Fax: 860-747-8822
An Employee Owned Company
email : info@loureiro.com
Comm No. 01MH4.08

GENERAL NOTES
1. SCOPE OF WORK INCLUDES: ELEVATING EXISTNG HOUSE AND ADDITION, DECK, AND STAIRS, LOCATED IN AE-12 FLOOD ZONE.
2. THE WORK DESCRIBED IN THESE DOCUMENTS IS TO MEET HIGHEST QUALITY STANDARDS IN BOTH MATERIAL AND WORKMANSHIP. ANY SUBSTANDARD WORK WILL BE REJECTED.
3. ALL WORK SHALL CONFORM TO THE MUNICIPALITY'S APPLICABLE BUILDING CODE, FIRE DEPT REGULATIONS, UTILITY COMPANY REQUIREMENTS, AND THE BEST TRADE PRACTICES.
4. BEFORE COMMENCING WORK, THE CONTRACTOR SHALL FILE ALL REQUIRED CERTIFICATES OF INSURANCE WITH THE BUILDING DEPT, OBTAIN ALL REQUIRED PERMITS, AND PAY ALL FEES AS REQUIRED BY GOVERNING MUNICIPAL AGENCIES.
5. THE CONTRACTOR SHALL VERIFY ALL DRAWING DIMENSIONS AND FIELD CONDITIONS, AND SHALL REPORT ANY DISCREPANCIES TO THE DESIGNER PRIOR TO COMMENCING WORK.
6. MINOR DETAILS NOT USUALLY SHOWN OR SPECIFIED, BUT NECESSARY FOR PROPER CONSTRUCTION OF ANY PART OF THE WORK SHALL BE INCLUDED AS IF THEY WERE INDICATED IN THE DRAWING.
7. THE CONTRACTOR SHALL COORDINATE ALL WORK PROCEDURES WITH THE REQUIREMENTS OF LOCAL AUTHORITIES.
8. THE CONTRACTOR SHALL LAYOUT HIS OWN WORK, AND SHALL PROVIDE ALL DIMENSIONS REQUIRED FOR ALL OTHER TRADES (PLUMBING, ELECTRICAL, ETC.) IF APPLICABLE
9. PLUMBING AND ELECTRICAL WORK SHALL BE PERFORMED BY PERSONS LICENSED IN THEIR TRADES. WHO SHALL ARRANGE FOR AND OBTAIN INSPECTIONS AND REQUIRED SIGNING IF APPLICABLE.
10. THE CONTRACTOR UPON COMPLETION OF JOB, SHALL APPLY FOR CERTIFICATE OF OCCUPANCY, AND SHALL ARRANGE FOR BUILDING DEPT INSPECTIONS AND SIGN-OFFS REQUIRED TO OBTAIN CERTIFICATE OF OCCUPANCY.
11. MANUFACTURED ARTICLES ARE TO BE INSTALLED IN STRICT ACCORDANCE WITH THE MANUFACTURER'S SPECIFICATIONS IN ALL CASES. CONTRACTOR SHALL NOTIFY DESIGNER OF ANY CONDITIONS THAT IS IN CONFLICT WITH MANUFACTURER'S SPECIFICATIONS OR INSTRUCTIONS THAT MIGHT VOID A MANUFACTURER'S WARRANTY.
12. THE CONTRACTOR SHALL ASSEMBLE IN A BINDER AND PASS ALONG TO THE OWNER ALL EQUIPMENT AND MATERIAL WARRANTIES THAT MAY EXTEND BEYOND THE BASE GUARANTEE PERIOD, AS WELL AS INSTALLATION AND MAINTENANCE INSTRUCTIONS IF APPLICABLE.
13. NO SUBSTITUTIONS FOR MATERIALS SPECIFIED HEREIN SHALL BE PERMITTED WITHOUT PRIOR APPROVAL BY ARCHITECT.
14. ARCHITECT AND ASSOCIATED CONSULTANTS DISCLAIMS ANY ACTUAL OR CONSEQUENTIAL DAMAGES ARISING FROM THIRD PARTY RELATIONSHIPS. THESE DRAWINGS DO NOT PROVIDE ALL OR ANY SPECIFIC DETAIL IN AREAS INCLUDING BUT NOT LIMITED TO NAILING, GLUING, CAULKING, FLASHING, PAINTING AND WATERPROOFING, OR CRAFTSMANSHIP. G.C. IS RESPONSIBLE TO PROVIDE PROPER SUPERVISED WORKMANSHIP.

ABBREVIATIONS	
AC	AIR CONDITIONING
ACU	AIR CONDITIONING UNIT
AFF	ABOVE FINISHED FLOOR
AHU	AIR HANDLING UNIT
ALUM	ALUMINUM
ANOD	ANODIZED
AT	ACOUSTICAL TILE
BD	BOARD
BLDG	BUILDING
BO	BY OTHERS
CAB	CABINET
CD	CEILING DIFFUSER
CFM	CUBIC FEET PER MINUTE
<	CENTER LINE
CLG	CEILING
CLL	CONTRACT LIMIT LINE
CMU	CONCRETE MASONRY UNIT
COL	COLUMN
CONC	CONCRETE
CONST	CONSTRUCTION
CONT	CONTINUOUS
CPT	CARPET(ED)
CS	COUNTER SINK
CT	CERAMIC TILE
CTR	COUNTER
CU FT	CUBIC FEET
CU IN	CUBIC INCHES
CW	COLD WATER (CITY)
D	DEPTH
DEMO	DEMOLITION
DET	DETAIL
DF	DRINKING FOUNTAIN
DHW	DOMESTIC HOT WATER
DIAG	DIAGONAL
DIAM	DIAMETER
DIM	DIMENSION
DN	DOWN
DR	DOOR
DS	DOOR STOP
DW	DISH WASHER
DWG	DRAWING
DWR	DRAWER
EA	EACH
EF	EXHAUST FAN
EH	ELECTRIC HEATER
EL/ELEV.	ELEVATION
ELEC	ELECTRIC
EMER	EMERGENCY
ENG	ENGINEER
EP	ELECTRIC PANEL
EQ	EQUAL
EQUIP	EQUIPMENT
EXIST'G	EXISTING
EXP	EXPANSION
EXT	EXTERIOR
FACT	FIN FACTORY FINISH
FBO	FURNISHED BY OTHERS
FE	FIRE EXTINGUISHER
FEC	FIRE EXTINGUISHER CABINET
FEE	FINISH FLOOR ELEVATION
FIN	FINISHED
FL	FLUORESCENT
FOF	FACE OF FINISH
FP	FIRE PROOFING
FPSC	FIRE PROOF SOLID CORE
FR	FIRE RESISTANT
FS	FULL SCALE
FT	FEET
FTR	FINNED TUBE RADIATION
GA	GAUGE
GC	GENERAL CONTRACTOR
GL	GLASS
GWB	GYPSUM WALLBOARD
HC	HOLLOW CORE
HD	HEAVY DUTY
HDW	HARDWARE
HDWD	HARDWOOD
HM	HOLLOW METAL
HOR	HORIZONTAL
HR	HOUR
HT	HEIGHT
HTG	HEATING
HVAC	HEATING, VENT, AIR COND.
HWH	HOT WATER HEATER
ID	INSIDE DIAMETER
IN	INCH
INCL	INCLUDE(ING)
INFO	INFORMATION
INSUL	INSULATION
INTR	INTERIOR
INV	INVERT
IRC	INTERNATIONAL RESIDENTIAL CODE
J-BOX	JUNCTION BOX
JT	JOINT
KO	KNOCK OUT
KPL	KICKPLATE
L	LENGTH
LAM	LAMINATE
LAV	LAVATORY
LBL	LABEL
LBS	POUNDS
LH	LEFT HAND
LIN FT	LINEAR FEET
LT	LIGHT
LTG	LIGHTING
MAS	MASONRY
MAX	MAXIMUM
MECH	MECHANICAL
MFR	MANUFACTURE(R)
MIN	MINIMUM
MISC	MISCELLANEOUS
MM	MILLIMETER
MO	MASONRY OPENING
MTD	MOUNTED
MTL	METAL
MULL	MULLION
MW	MILLWORK
NA	NOT APPLICABLE
NIC	NOT IN CONTRACT
NO	NUMBER
NOM	NOMINAL
NTS	NOT TO SCALE
OC	ON CENTER
OD	OUTSIDE DIAMETER
OPNG	OPENING
OPP	OPPOSITE
PART	PARTITION
PL	PLATE
PL LAM	PLASTIC LAMINATE
PLB'G	PLUMBING
PLYWD	PLYWOOD
PNL	PANEL
PNT	PAINT
PT	POINT
QT	QUARRY TILE
R	RISE(R)
RA	RETURN AIR
RAD	RADIUS
RD	ROOF DRAIN
REF	REFERENCE
REINF	REINFORCE
REM	REMOVE
REQD	REQUIRED
REV	REVISION
RH	RIGHT HAND
RM	ROOM
RO	ROUGH OPENING
RPM	REVOLUTIONS PER MINUTE
SA	SUPPLY AIR
SC	SOLID CORE
SHT	SHEET
SIM	SIMILAR
SP	SPEAKER
SPEC(S)	SPECIFICATION(S)
SQ	SQUARE
SQ FT	SQUARE FOOT (FEET)
SQ IN	SQUARE INCH
SS	STAINLESS STEEL
ST	STREET
STL	STEEL
STD	STANDARD
SUSP	SUSPENDED
SYM	SYMMETRICAL
SYS	SYSTEM
T & G	TONGUE & GROOVE
TEL	TELEPHONE
TEMP	TEMPERATURE
THERM	THERMOSTAT
THK	THICKNESS
THRU	THROUGH
TOS	TOP OF SLAB
TR	TREAD
TST	TOP OF STEEL
TV	TELEVISION
TYP	TYPICAL
UON	UNLESS OTHERWISE NOTED
V	VOLTS
VAC	VACUUM
VCT	VINYL COMPOSITE TILE
VERT	VERTICAL
VIF	VERIFY IN FIELD
W	WIDTH
W/	WITH
W/O	WITHOUT
WB	WOOD BASE
WC	WATER CLOSET
WO	WOOD
WP	WATERPROOF
WPT	WORKING POINT
WR	WATER RESISTANT
WT	WEIGHT
YD	YARD

LIST OF DRAWINGS	LOCATION MAP
ARCHITECTURAL DRAWINGS	STRUCTURAL DRAWINGS
CS COVER SHEET	S-1 STRUCTURAL NOTES
T-1 TITLE SHEET: GENERAL NOTES, DRAWING LIST, APPLICABLE CODES, SITE MAP, SYMBOL LEGEND, ETC.	S-2 STRUCTURAL DETAILS
A-1 FIRST FLOOR PLAN	S-3 STRUCTURAL PLANS
A-2 SECOND FLOOR PLAN, ROOF PLAN, AND PARTITION TYPES	S-4 STRUCTURAL DETAILS
A-3 ELEVATIONS	
A-4 BUILDING SECTION	M.E.P. DRAWINGS
A-5 DETAILS	SP-1 MEP SPECIFICATIONS
A-6 DOOR & WINDOW SCHEDULES AND DETAILS	M-1 MECHANICAL PLANS
A-7 ENLARGED PLANS AND INT. ELEVATIONS & DETAILS	P-1 PLUMBING PLANS
	P-2 PLUMBING PLANS
	E-1 ELECTRICAL PLANS
	E-2 ELECTRICAL PLANS
	CIVIL DRAWINGS
	1 OF 1 EXISTING CONDITIONS
	C1 SITE PLAN & DETAILS
BUILDING DESIGN DATA	
GROUP R-3 FOR SINGLE FAMILY (2) STORY DWELLING	
BUILDING CATEGORY: II	
CONSTRUCTION TYPE: V	
PROPOSED BUILDING MEAN HEIGHT 22'-4" +/-	
WIND SPEED 100 MPH [PER IRC 2009 AND 2013 CT AMENDMENTS(AMD)]	
WIND IMPORTANCE FACTOR - (Iw)=1.49 - PER TABLE R301.2(3)	
WIND EXPOSURE - "C"	
FLOOD ZONE - AE 12:	
REQUIRED: DFE = 12.00' x 1.25 (500-YEAR FLOOD ELEV. ADJUSTMENT) = 15.0' + 1'-0" (FREEBOARD) = 16.0' TOTAL	
PROPOSED: DFE = 16.0' (TOP OF FOUNDATION)	
DESIGNED FOR 500-YEAR FLOOD BASED ON SHPO & NFIP REGULATORY REQUIREMENTS: FLOOD PLAIN MANAGEMENT REGULATIONS BY LOCAL JURISDICTION AND PER LATEST FIRM FLOOD MAPS & CONSENSUS STANDARDS	
APPLICABLE CODES	
APPLICABLE CODES: 2009 INTERNATIONAL RESIDENTIAL CODE AND CT 2013 AMENDMENTS.	
PER SECTION R301 DESIGN CRITERIA -	
R301.1 APPLICATION / MEETS REQUIREMENTS	
R301.2 - CLIMATIC AND GEOGRAPHIC DESIGN CRITERIA / MEETS REQUIREMENTS	
R301.2.1 (AMD) - WIND LIMITATIONS / MEETS REQUIREMENTS	
TABLE R301.2.1(1) (AMD) - CLIMATIC AND GEOGRAPHIC DESIGN CRITERIA:	
(AMD) - GROUND SNOW LOAD - 30 LBS PSF / PROVIDED	
(AMD) - WIND SPEED (MPH) - 100 MPH PER APPENDIX R / MEETS REQUIREMENTS	
(AMD) - SEISMIC DESIGN CATEGORY - CATEGORY B - (N/A)	
(AMD) - FLOOD HAZARD - AE	
(AMD) - SUBJECT TO DAMAGE - FROST LINE DEPTH -42 INCHES / PROVIDED	
R301.2(2) - COMPONENT AND GLADDING LOADS:	
Roof Zone 1,2, & 3 - W/ 100 MPH - WIND = 24.59 / -31.29 PRESSURE MAX. (50 D.P. PROVIDED)	
Wall Zone 4 - W/ 100 MPH - WIND = +26.82 / -29.05 PRESSURE MAX. (50 D.P. PROVIDED)	
Wall Zone 5 - W/ 100 MPH - WIND = 26.82 / -35.9 PRESSURE MAX. (50 D.P. PROVIDED)	
R301.2(3) - HEIGHT AND EXPOSURE COEFFICIENTS FOR TABLE R301.2(2):	
1.49 ADJUSTMENT PROVIDED	
R301.2.1.4 (AMD) - EXPOSURE CATEGORY / EXPOSURE C	
R301.4 - DEAD LOADS & R301.5 - LIVE LOADS -	
ATTIC FLOOR: 10 PSF DL / 20 PSF SL / PROVIDED ONLY FOR NEW MECH. AREA.	
SECOND / MAIN FLOOR: 10 PSF DL / 40 PSF LL / NEW FLOOR BEAMS PROVIDED	
DECK FLOOR: 10 PSF DL / 40 PSF LL / PROVIDED	
R301.6 (AMD) - ROOF LOAD - EXISTING / NEW MEETS REQUIREMENTS	
R301.7 - ALLOWABLE DEFLECTION / MEETS REQUIREMENTS	
PER SECTION R302 - FIRE-RESISTANT CONSTRUCTION:	
R302.1 (AMD) - EXTERIOR WALLS - MINIMUM FIRE SEPERATION / EXISTING WALLS - NO RATING REQUIRED	
NEW ADDITION AND DECKS AND STAIRS / MEET 5'-0" REQUIREMENTS - NO RATING REQUIRED	
PER SECTION R303 - LIGHT, VENTILATION AND HEATING / MEETS REQUIREMENTS	
PER SECTION R304 - MINIMUM ROOM AREAS / MEETS REQUIREMENTS	
PER SECTION R305 - CEILING HEIGHTS / MEETS MIN. REQUIREMENTS	
PER SECTION R306 - SANITATION / MEETS REQUIREMENTS (BACKFLOW VALVE PROVIDED)	
PER SECTION R307 - TOILET, BATH AND SHOWER SPACES / MEETS REQUIREMENTS	
PER SECTION R308 - GLAZING -	
R308.4 - HAZARDOUS LOCATIONS / TEMPERED WINDOWS PROVIDED	
PER SECTION R309 - GARAGES -	
R309.1 - FLOOR SURFACE / MEETS REQUIREMENTS	
R309.3 - FLOOD HAZARD AREAS / MEETS REQUIREMENTS	
R309.4 - AUTOMATIC GARAGE DOOR OPENERS / N/A	
PER SECTION R310 - EMERGENCY ESCAPE AND RESCUE OPENINGS -	
R310.1 - EMERGENCY ESCAPE AND RESCUE REQUIRED / N/A (EXISTING)	
R310.1.1 - MINIMUM OPENING AREA / PROVIDED IN EACH BEDROOM 5.7 REQ'D / PROVIDED	
PER SECTION R311 - MEANS OF EGRESS -	
R311.1 - MEANS OF EGRESS / N/A (EXISTING)	
R311.2 - EGRESS DOOR / N/A (EXISTING)	
R311.3.1 - FLOOR ELEVATIONS AT THE REQUIRED EGRESS DOOR / N/A (EXISTING)	
PER SECTION R312 - GUARDS -	
R312.1 - WHERE REQUIRED / PROVIDED	
R312.2 - HEIGHT / MEETS REQUIREMENTS	
R312.3 - OPENING LIMITATIONS / MEETS REQUIREMENTS	
PER SECTION R313 - AUTOMATIC FIRE SPRINKLER SYSTEM -	
R313.2 (AMD) - ONE AND TWO FAMIL DWELLINGS AUTOMATIC FIRE SPRINKLER SYSTEM (NOT REQUIRED/NOT PROVIDED)	
PER SECTION R314 - SMOKE ALARM:	
R314 - SMOKE ALARMS (PROVIDED)	
R314.4 (AMD) - POWER SOURCE (MEETS REQUIREMENTS)	
PER SECTION R315 - CARBON MONOXIDE ALARM:	
R315.1 (AMD) - CARBON MONOXIDE ALARMS (PROVIDED)	
PER SECTION R316 - FOAM PLASTIC:	
R316.4 - THERMAL BARRIER / N/A	
PER SECTION R317 - PROTECTION OF WOOD AND WOOD BASED PRODUCTS AGAINST DECAY:	
R317.1 - LOCATION REQUIRED (MEETS REQUIREMENTS)	
PER SECTION R318 - PROTECTION AGAINST SUBTERRANEAN TERMITES:	
R318.1 - SUBTERRANEAN TERMITE CONTROL METHODS (METHOD #3 PROVIDED)	
PER SECTION R319 - SITE ADDRESS:	
R319.1 - ADDRESS NUMBERS (MEETS REQUIREMENTS)	
PER SECTION R320 - ACCESSIBILITY:	
R320.1 - SCOPE (NOT REQUIRED / NOT PROVIDED)	
PER SECTION R321 - ELEVATORS AND PLATFORM LIFTS:	
(NOT REQUIRED / NOT PROVIDED)	
PER SECTION R322 - FLOOD-RESISTANT CONSTRUCTION:	
R322.1 - GENERAL (COMPUES)	
R322.1.2 - STRUCTURAL SYSTEM (PROVIDED)	
R322.1.3 - FLOOD-RESISTANT CONSTRUCTION (MEETS REQUIREMENTS)	
R322.1.4 - ESTABLISHING THE DESIGN FLOOD ELEVATION - 100-YEAR REQUIRED (AE 11' + 1'-0" FREEBOARD)	
R322.1.4.1 - DETERMINATION OF THE DESIGN FLOOD ELEVATION (500-YEAR FLOOD PROVIDED)	
R322.1.5 - LOWEST FINISH FLOOR (EXCEEDS MIN. REQUIREMENTS)	
R322.1.6 - PROTECTION OF MECHANICAL AND ELECTRICAL (PROVIDED)	
R322.1.7 - PROTECTION OF WATER SUPPLY AND SANITARY SEWGE SYSTEMS (PROVIDED)	
R322.1.8 - FLOOD RESISTANT MATERIALS (PROVIDED)	
R322.1.10 - AS-BUILT ELEVATION DOCUMENTAION (PROVIDED)	
R322.2.1 - ELEVATION REQUIREMENTS (PROVIDED)	
R322.2.2 - ENCLOSED AREA BELOW DESIGN FLOOD ELEVATION (MEETS #1 REQUIREMENTS)	
R322.2.3 - FOUNDATION DESIGN AND CONSTRUCTION (MEETS REQUIREMENTS)	
R322.3.4 - WALLS BELOW DESIGN FLOOD ELEVATION (MEETS REQUIREMENTS)	
R322.3.5 - ENCLOSED AREAS BELOW DESIGN FLOOD ELEVATION (MEETS REQUIREMENTS)	
R322.3.6 - CONSTRUCTION DOCUMENTS (MEETS REQUIREMENTS)	





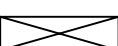
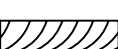


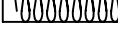

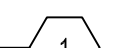
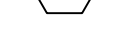




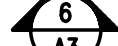










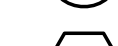
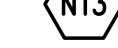


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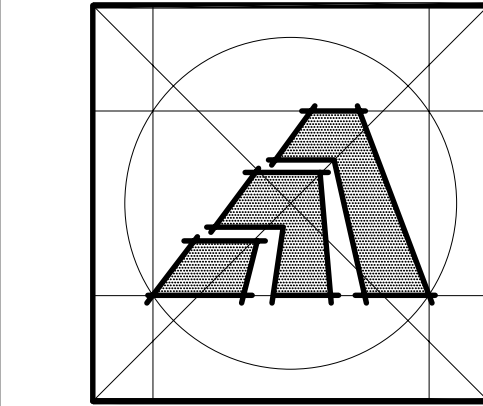
SHPO has determined that this renovation & elevation will have an adverse effect. This adverse effect will be cured by a Programmatic Agreement. Construction cannot begin until the adverse effect has been cured by Amaya Architects.

PROJECT DATA

OWNER: BARBARA WIERNER
34 ELAINE ROAD
MILFORD, CONNECTICUT 06460

SITE LOCATION: 34 ELAINE ROAD
MILFORD, CONNECTICUT 06460

LEGEND
 GRAVEL
 CONCRETE
 MORTAR, GROUT
 STEEL
 FRAMING LUMBER
 HARDWOOD
 PLYWOOD
 BATT INSULATION
 GYPSUM WALLBOARD
 KEY NOTE
 DETAIL DRAWING NO.
 BUILDING SECTION
 WALL SECTION
 SECTION DETAIL
 COLUMN GRID
 PLAN / WALL DETAIL
 INTERIOR ELEVATION DRAWING NO.
 DATUM POINT (ELEVATION)
 DOOR NUMBER
 WINDOW NUMBER
 PARTITION TYPE
 REVISION FLAG
 REFERENCE KEY
 REMOVAL NOTE
 ROOM NUMBER
 EQUIPMENT TYPE
 CABINET TYPE
 C.O.D. CARBON MONOXIDE DETECTOR
 S.D. SMOKE DETECTOR (HARD WIRE)
 H.D. HEAT DETECTOR (HARD WIRE)
 CEILING FAN/LIGHT



Amaya Architects
American Institute of Architects

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Sheet Title:

TITLE SHEET

APPLICATION # 5001

WERNER RESIDENCE

34 Elaine Road
Milford,Connecticut 06460

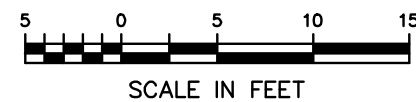
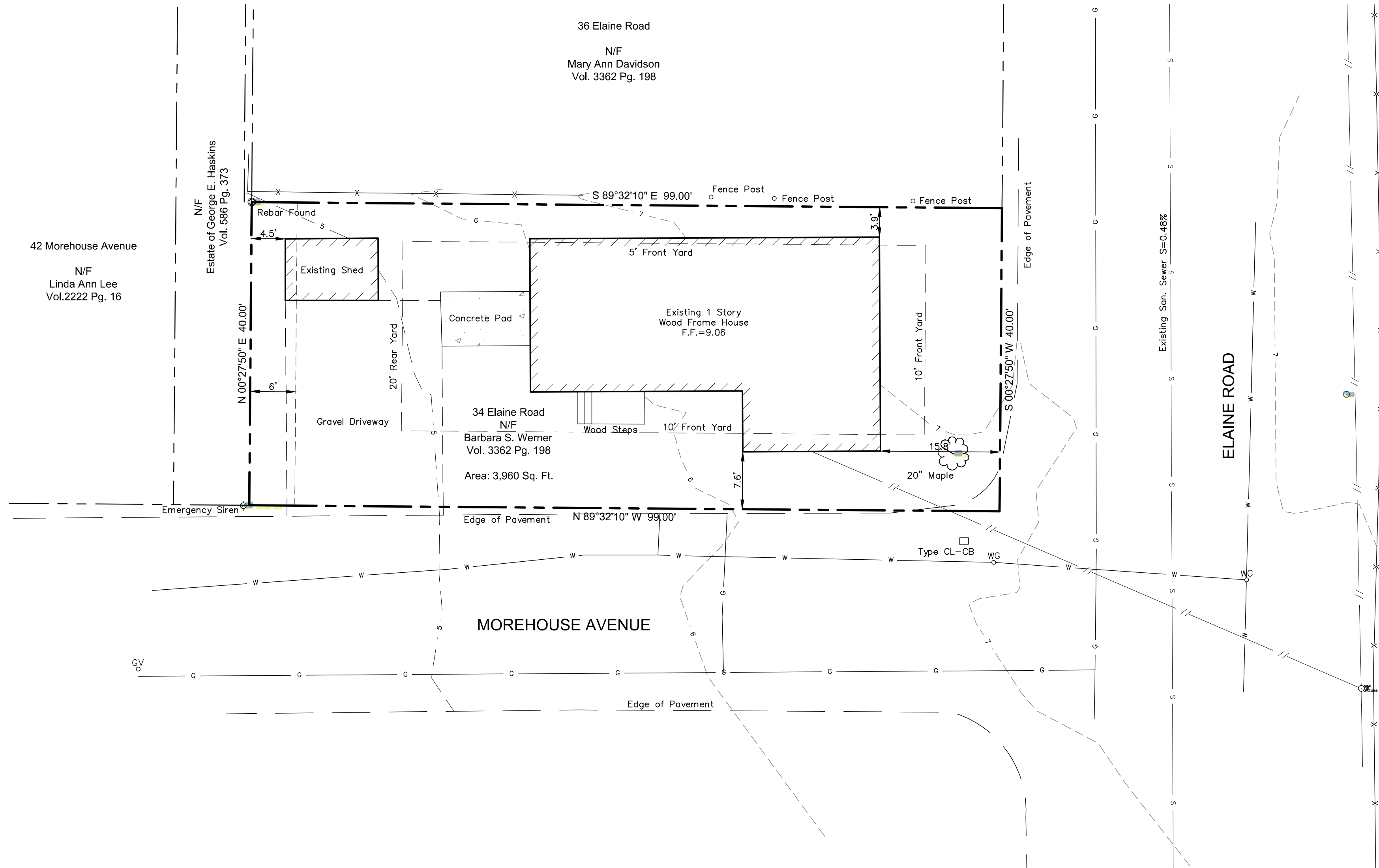
STATE OF CONNECTICUT
DEPARTMENT OF HOUSING
COMMUNITY DEVELOPMENT BLOCK GRANT
DISASTER RECOVERY PROGRAM
OWNER OCCUPIED REHABILITATION
AND REBUILDING PROGRAM (OORP)

Date: 01/09/2015

Project Number: 5001
Drawn By: J.V.L.

Sheet Number:

T1



NOTES:

- This map and survey have been prepared pursuant to the Regulations of Connecticut State Agencies Sections 20-300b-1 through 20-300b-20 and "The Minimum Standards for Surveys and Maps in the State of Connecticut" as adopted by the Connecticut Association of Land Surveyors on September 26, 1996.
- The type of survey performed and the mapped features depicted hereon are in accordance with the requirements of a Property/Boundary and Topographic Survey.
- The boundary determination / opinion is based upon a Resurvey of map reference 6A.
- This map conforms to Class A-2 horizontal accuracy, Class T-2 Topographic accuracy and V-2 Vertical accuracy.
- The north arrow, bearings and elevations are based upon the Connecticut State Coordinate System (NAD83) and NAVD88 respectively, derived from Static GPS observations made on September 24, 2014.
- Map References:
 - "Point Beach, George E. Haskins Sections, Milford Conn." scale: 1"=80' dated Feb. 15, 1928; map on file in the City of Milford Land Records as map R-31.
 - "The Mervin Estate General Lotting Plan, Property of the Elaine Realty Co., Point Beach, Milford, Conn." scale: 1"=100' dated Feb 25, 1927 prepared by Arthur W. Bacon; map on file in the City of Milford Land Records as map R-25.
- Parcel is located in Flood Zone AE (base flood elevation determined to be 12) as depicted on "FIRM, Flood Rate Insurance Map, New Haven County, Connecticut, (all jurisdictions), Panel 534 of 635, Milford, City of," Map Number 09003C0534J, map revised July 8, 2013.
- Parcel is depicted on the City of Milford Tax Assessor's Map 30, Block 639 as Lot 14.
- Parcel is zoned R-5 and is subject to the following zoning requirements:

Minimum Lot Size	5,00 Square Feet
Minimum Frontage	50 Feet
Minimum Depth	70 Feet
Front Yard	10 Feet or Actual which ever is greatest
Side Yard	10 Feet one side, 5 Feet the other side
Rear Yard	20'
Maximum Height	3 Stories
- The underground utilities depicted hereon have been compiled from observable evidence, such as manholes, catch basins and water gates. These location must be considered as approximate in nature. Additionally, other such features may exist on the sites, the existence of which is unknown to Loureiro Engineering Associates, Inc. (LEA). The size, location and existence of all such features must be field determined and verified by the appropriate authorities prior to construction. Call Be-For-You-Dig at 1-800-922-4455 or 811.

LEGEND	
•	Property Corner
—	Property Line
---	Setback Line
G	Existing Gas Line
w	Existing Watermain
s	Existing Sanitary Sewer

To my knowledge and belief, the foregoing is substantially correct as noted hereon.

Edward G. Shelomis, L.S. #9266

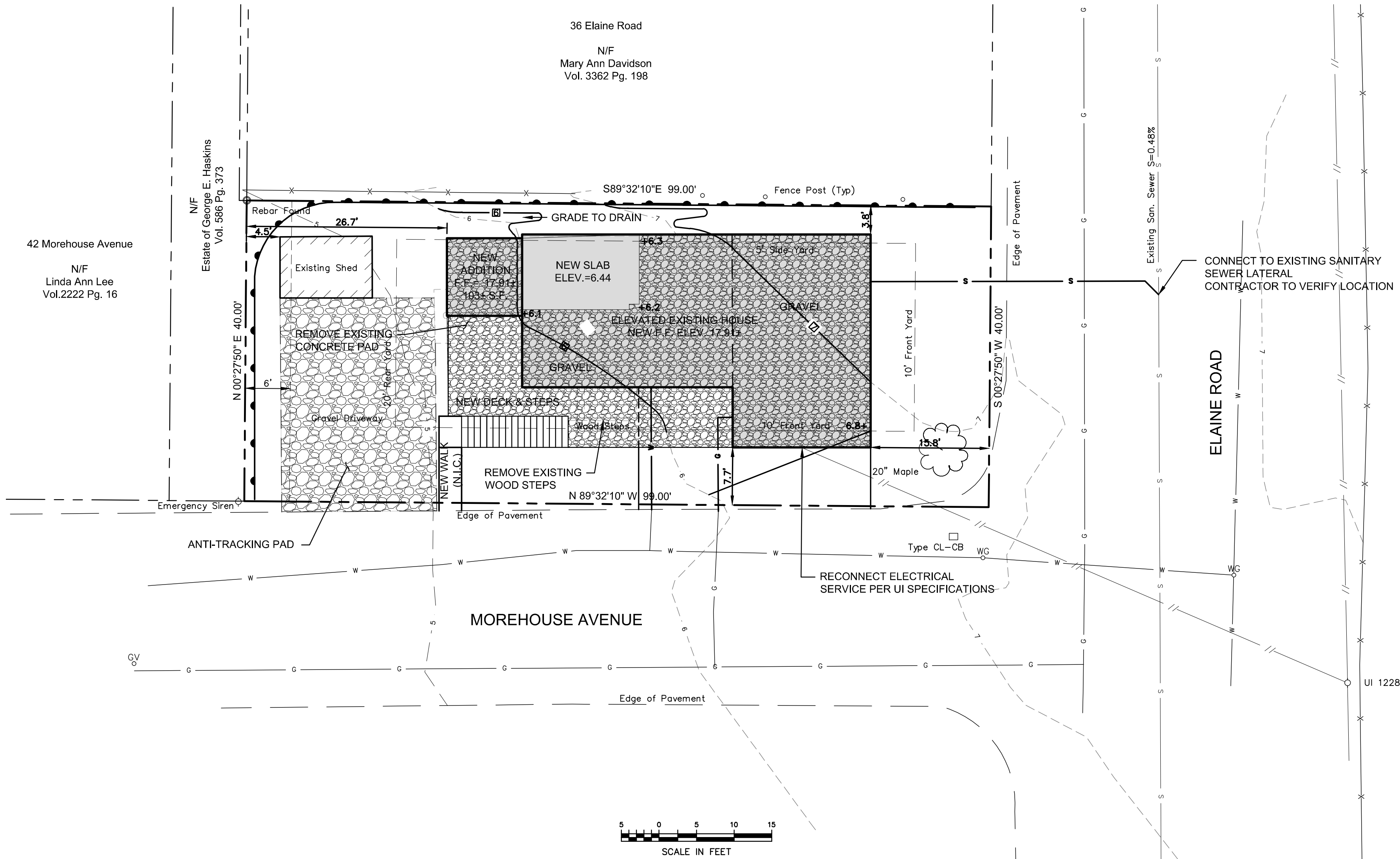


VICINITY MAP
Scale: 1"=1,500'

PROPERTY/BOUNDARY & TOPOGRAPHIC SURVEY 34 ELAINE ROAD, MILFORD, CONNECTICUT		SCALE 1" = 10'		DATE 11/18/2014		DATE 11/18/2014		DRAWING 1		SHEET 1		NO. OF SHEETS 1		REV.		DATE		APPR.	
EXISTING CONDITIONS LAND OF BARBARA S. WERNER		01MH4.16		DATE 11/18/2014		DATE 11/18/2014		DRAWING 1		SHEET 1		NO. OF SHEETS 1		REV.		DATE		APPR.	
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EXISTING CONDITIONS LAND OF BARBARA S. WERNER		01MH																	

ZONING TABLE - R-5 ZONE			
	Required	Existing	Proposed
Min. Lot Area	5,000 S.F.	3,737± S.F.	No Change
Min. Setbacks			
Front Yard	10'	7.6'	7.7'
Side Yard	5' & 10'	4.5'	No Change
Rear Yard	20'	3.9'	3.8'
Max. Height (Stories)	3	1	2
Max. Height	35	N/A	21.3±*
Building Floor Area	45%	30%	32.4%
Lot Coverage	65%	32.8%	49.7%

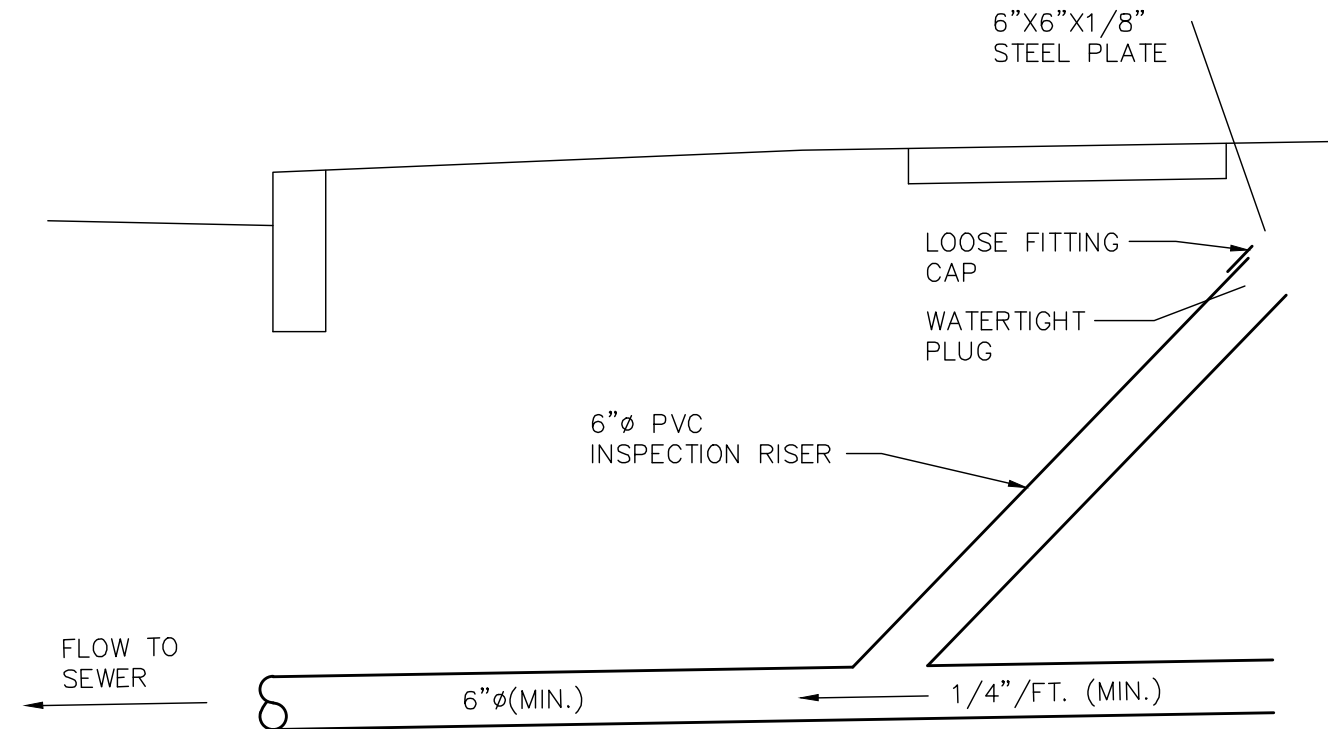
* Mean Roof Height



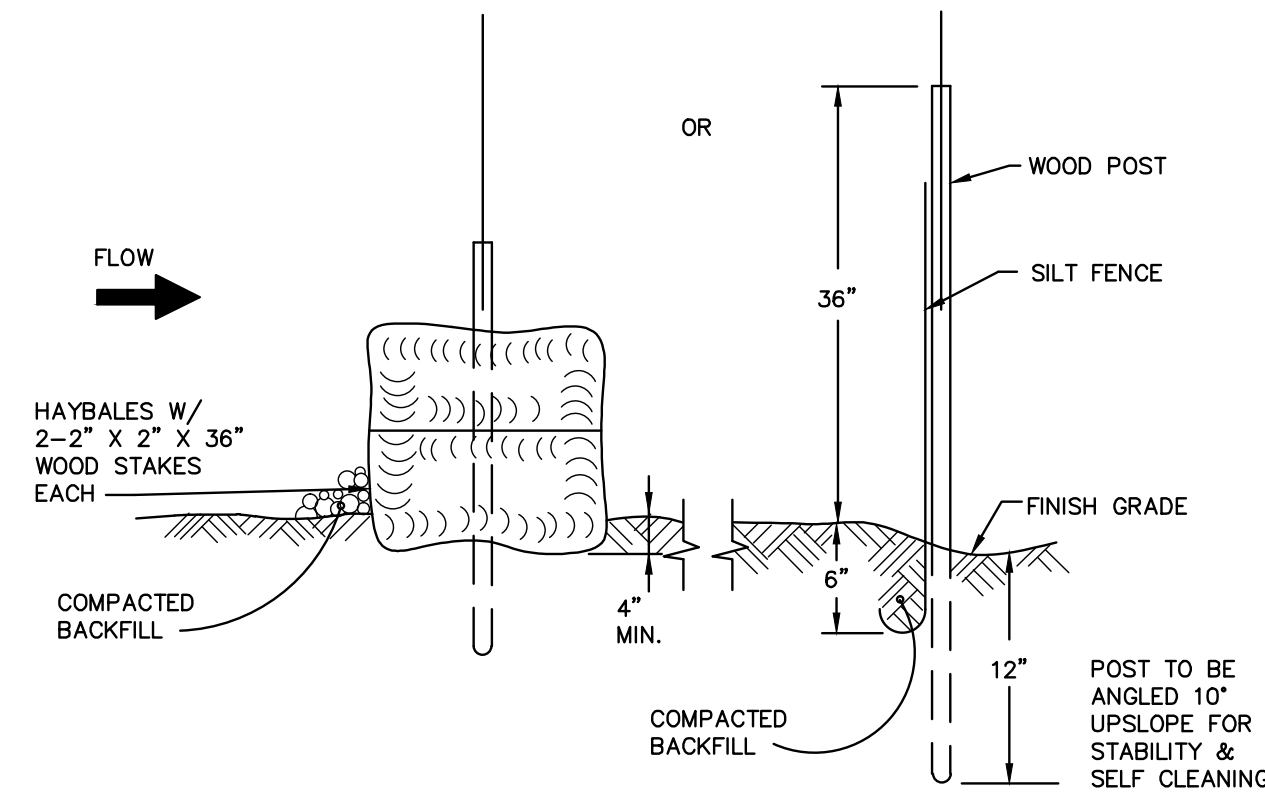
A CONDITION OF ALL SEWER PERMITS FOR INSTALLING RESIDENTIAL SEWER CONNECTIONS IS THE REQUIREMENT TO FURNISH AND INSTALL A SEWER INSPECTION RISER IN THAT AREA OF THE STREET RIGHT-OF-WAY BETWEEN THE CURB AND THE STREETLINE (FRONT PROPERTY LINE). THE INSPECTION RISER IS TO CONSIST OF A 45° WYE FITTING INSTALLED ON THE HOUSE CONNECTION SEWER APPROXIMATELY 4 FEET BEHIND THE STANDARD CURB LOCATION*. A 6"Ø PVC INSPECTION RISER PIPE IS TO BE INSTALLED TO WITHIN 12" OF THE FINISHED GROUND SURFACE AND FITTED WITH A WATERTIGHT PLUG. A 6"x6"x1/8" STEEL PLATE IS TO BE PLACED ABOVE THE END OF THE INSPECTION RISER WHEN BACKFILLING THE AREA TO GRADE TO ASSIST WITH FUTURE RECOVERY OF THE INSPECTION RISER BY MEANS OF A MAGNETIC DETECTOR.

*IN A SEWER EASEMENT THE INSPECTION RISER IS TO BE AT THE EDGE OF THE EASEMENT.

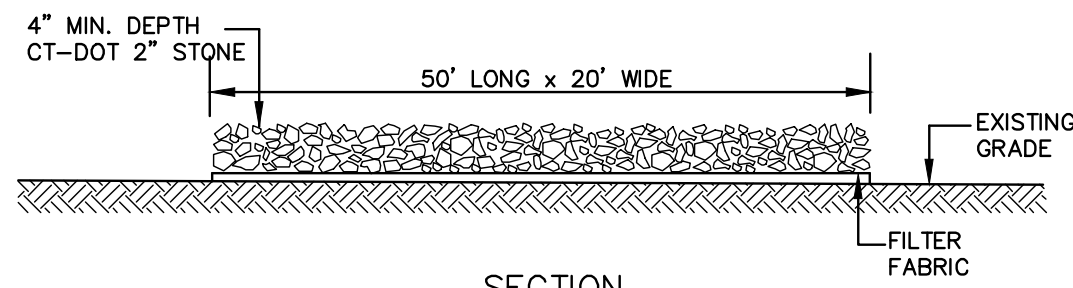
*IN LOCATIONS WHERE AN EXISTING LATERAL EXTENDS TO THE STREET LINE, THE "Y" CONNECTION SHALL BE PLACED AS CLOSE TO THE STREET LINE AS POSSIBLE, WITH THE INSPECTION RISER EXTENDING TO WITHIN 12" OF GRADE AND LOCATED ON PRIVATE PROPERTY.



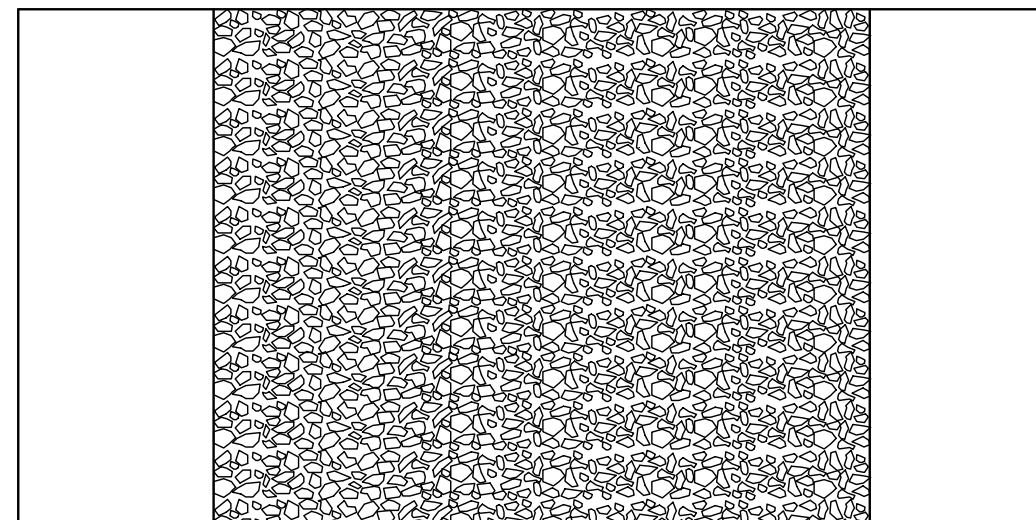
INSPECTION RISER DETAIL
N.T.S.



TYPICAL SEDIMENT BARRIER DETAIL
SCALE: NONE



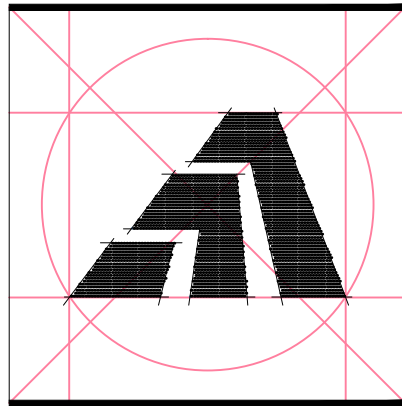
SECTION



TYPICAL ANTI-TRACKING PAD DETAIL
SCALE: NONE

GENERAL NOTES:

- Prior to demolition, all erosion control barriers shall be placed in accordance with the Town of Milford's requirements and shall be left in place and maintained until the work has been completed and surfaces stabilized.
- It shall be the responsibility of the contractor to monitor the condition of the erosion control structures. If the effectiveness or integrity of the structures is found to be insufficient or if the structures are damaged in any way, the contractor shall make whatever repairs are necessary to ensure that proper erosion control is maintained.
- If additional erosion and sedimentation control structures are necessary to minimize erosion and sedimentation as determined in the field, the contractor shall install structures as required at the contractors expense.
- All debris from the demolition and any required environmental mitigation such as asbestos abatement or other hazardous building material shall be immediately removed from the site at the contractor's expense. All materials shall be disposed of off site at an approved facility.
- Contractor to contact all utility companies to shut-off or disconnects existing services prior to construction.
- Removal existing overhead and re-attachment to be in accordance with United Illuminating Company specifications.
- Shut-off/disconnection of existing gas service and installation of new gas meter and service lateral per Southern Connecticut Gas Company Specifications.
- Disconnect existing sanitary sewer lateral. Protect end from debris and construction activities. Reconnect with new service lateral.
- No stockpile of any material will be permitted to the rear of the site.
- The underground utilities depicted hereon have been compiled from observable evidence, such as manholes, catch basins and water gates. These locations must be considered as approximate in nature. Additionally, other such features may exist on the sites, the existence of which is unknown to Loureiro Engineering Associates, Inc. (Loureiro). The size, location and existence of all such features must be field determined and verified by the appropriate authorities prior to construction. Call Be-For-You-Dig at 1-800-922-4455 or 811.
- Prior to issuance of a Building Permit, details of the apron, sidewalk and residential inspection riser shall be presented to City of Milford Planning and Zoning for approval.
- Permits from the City of Milford Engineering department required for driveway apron, sidewalk, and for sanitary work prior to construction.



Amaya Architects
American Institute of Architects

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ORANGE, CT 06477 FAX (203) 799 3871

SMEP Consultant:



Loureiro Engineering Associates, Inc.
100 Northwest Drive
Plainville, Connecticut 06062
Phone: 860-747-6181 / Fax: 860-747-8822
An Employee Owned Company
email : info@loureiro.com
Comm No. 01MH4.02

Sheet Title:

SITE PLAN & DETAILS

WERNER RESIDENCE
34 Elaine Road
Milford,Connecticut 06460

STATE OF CONNECTICUT
DEPARTMENT OF HOUSING
COMMUNITY DEVELOPMENT BLOCK GRANT
DISASTER RECOVERY PROGRAM
(CDBG-DR)

Date:
For Town Approval 11/18/14

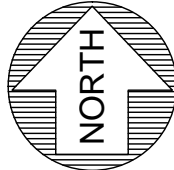
Job Number: 000
Drawn By: P.A.C.
Approved By: E.G.S.

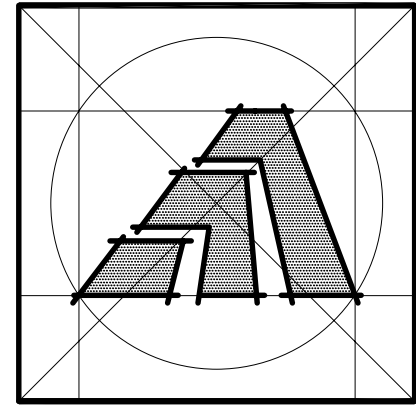
Sheet Number:

C-1

To my knowledge and belief this map is substantially correct as noted hereon.

Edward G. Shelomis, P.E. #9266





Amaya Architects
American Institute of Architects

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ORANGE, CT 06477 FAX (203) 799 3871

Sheet Title:
REMOVAL PLANS

APPLICATION #5001

WERNER RESIDENCE
34 Elaine Road
Milford, Connecticut 06460

STATE OF CONNECTICUT
DEPARTMENT OF HOUSING
COMMUNITY DEVELOPMENT BLOCK GRANT
DISASTER RECOVERY PROGRAM
OWNER OCCUPIED REHABILITATION
AND REBUILDING PROGRAM (OORR)

Date: 01/09/2015

Job Number: 5001
Drawn By: J.V.L.

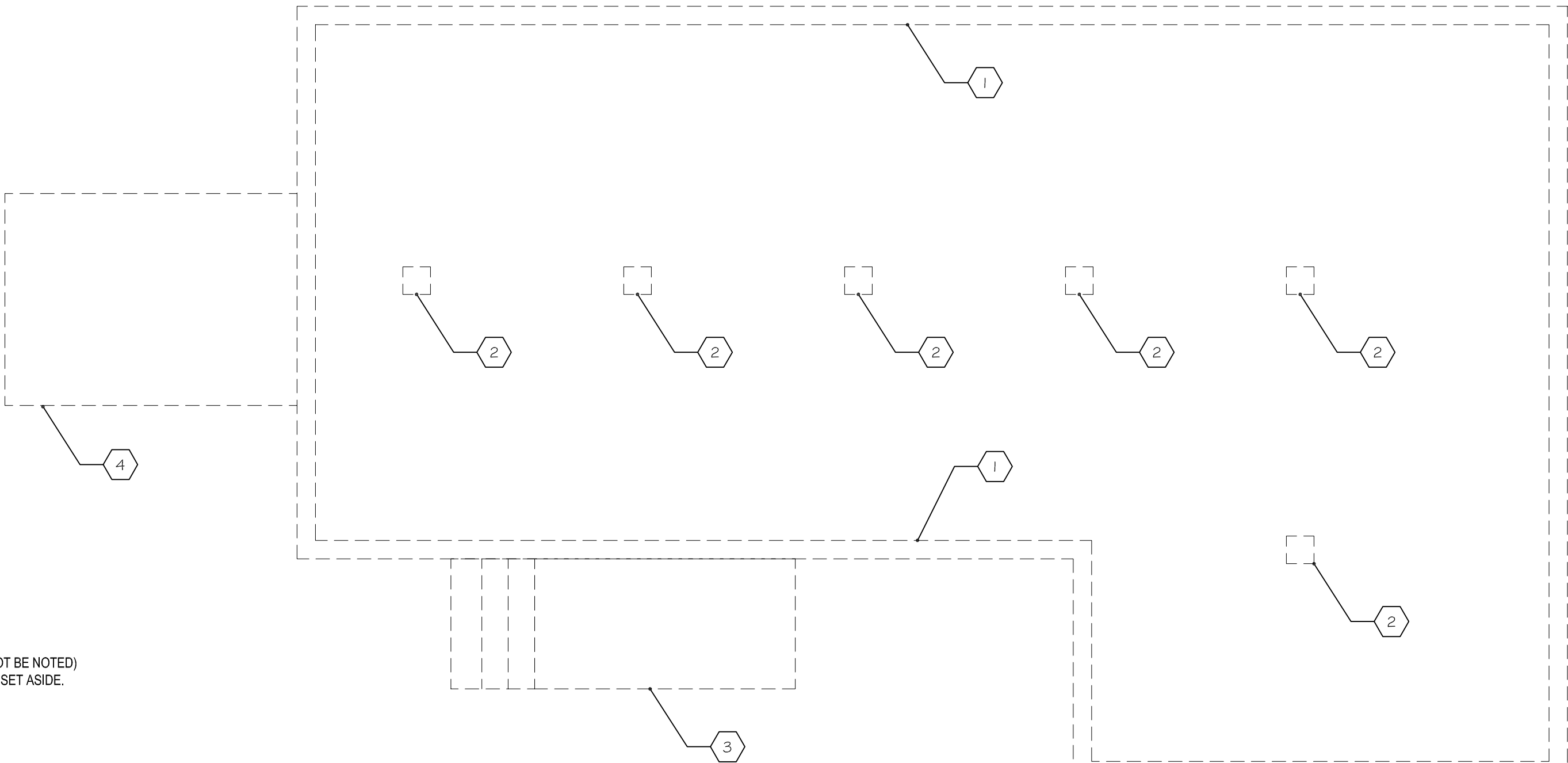
Sheet Number:
R1

LEGEND
EXISTING
REMOVED (MISC. ITEMS MAY NOT BE NOTED)
VERIFY WITH G.C. ITEMS TO BE SET ASIDE.

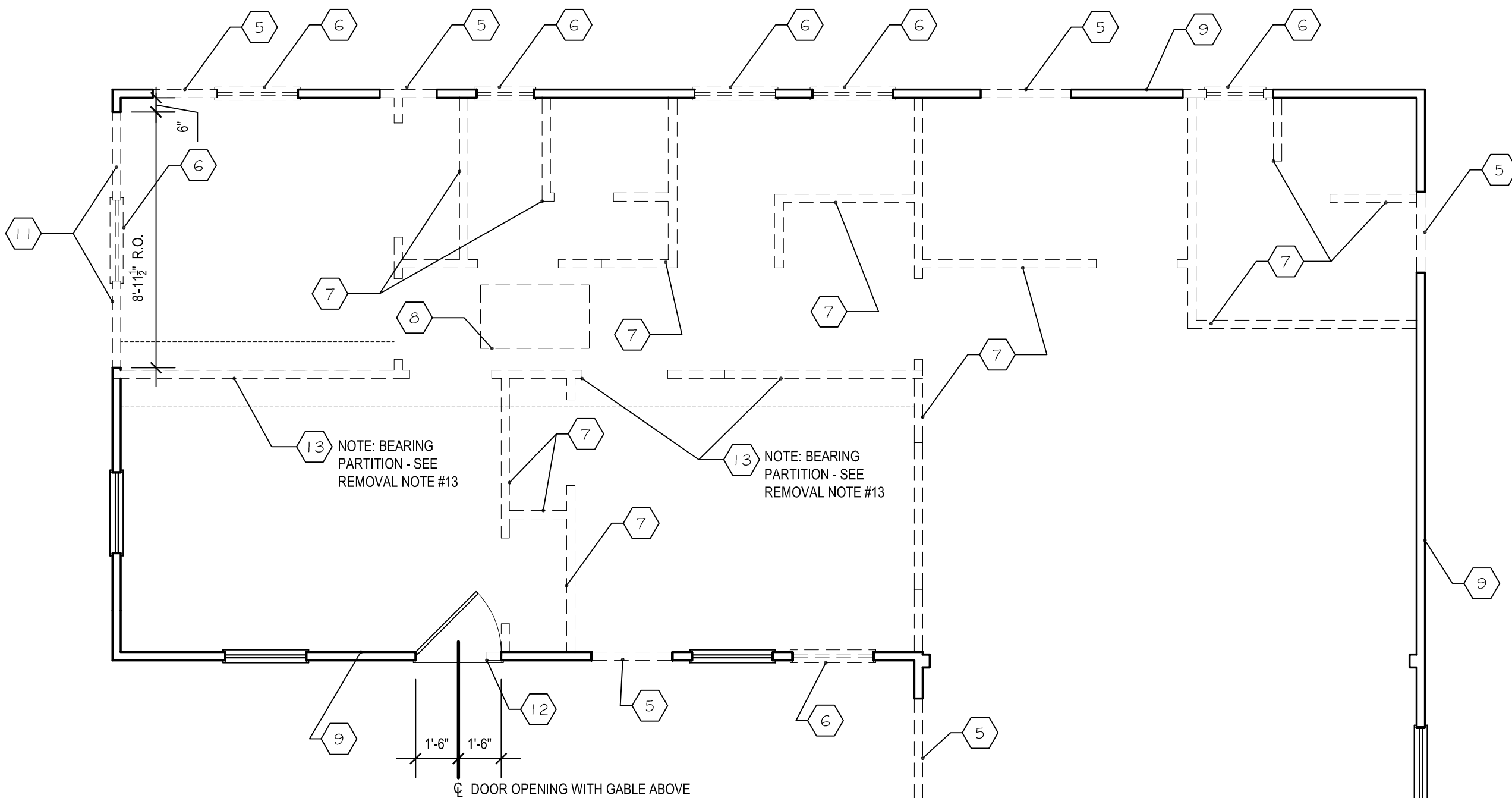
REMOVAL TAG LEGEND

ELECTRICAL AND PLUMBING MISC. NOT DENOTED
ALL UTILITIES SHALL BE LOCATED AND DISCONNECTED PRIOR TO COMMENCING WORK.
ALL SHORING SHALL BE IN PLACE PRIOR TO REMOVAL OF STRUCTURAL ELEMENTS.

- 1 CMU FOUNDATION WALL AND CONC. FTG.
- 2 CMU PIERS
- 3 WOOD AND CONCRETE STEPS
- 4 CONCRETE PATIO
- 5 EXTERIOR WD. STUD WALL SYSTEM:
PROVIDE NEW WINDOW OPENING -
REFER TO WINDOW SCHEDULE AND
WINDOW MANUF. SPECS FOR ROUGH OPENING
COORDINATE W/ PROPOSED PLANS FOR LOCATION
- 6 WINDOW UNIT AND FRAME
- 7 INTERIOR WD. STUD WALL
- 8 ATTIC ACCESS (SEE ATTIC
FLOOR PLAN FOR NEW OPENING)
- 9 NOT USED
- 10 WOOD FLOOR SYSTEM: JOIST AND
1x T&G FIR DECKING.
- 11 EXTERIOR WD. STUD WALL SYSTEM:
PROVIDE NEW OPENING FOR NEW
ADDITION - SEE PROPOSED PLAN
- 12 EXTERIOR WD. STUD WALL SYSTEM:
ENLARGE THE EXISTING FRONT DOOR
OPENING FOR TO FIT THE ORIGINAL
3'-0" WIDE DOOR WHICH WILL BE
REINSTALLED - THIS OPENING
AND DOOR MUST BE CENTERED ON
EXISTING GABLE ROOF ABOVE.
- 13 BEARING WALL
PARTITIONS SHALL BE
REMOVED ONLY AFTER
NEW BEAM HAS
BEEN INSTALLED



2 FIRST FLOOR REMOVAL PLAN
R1 SCALE: 1/4" = 1'-0"



1 FOUNDATION REMOVAL PLAN
R1 SCALE: 1/4" = 1'-0"



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ORANGE, CT 06477 FAX (203) 799 3871

Sheet Title:
FIRST FLOOR PLAN

APPLICATION #5001

WERNER RESIDENCE

34 Elaine Road
Milford, Connecticut 06460

STATE OF CONNECTICUT
DEPARTMENT OF HOUSING
COMMUNITY DEVELOPMENT BLOCK GRANT
DISASTER RECOVERY PROGRAM
OWNER OCCUPIED REHABILITATION
AND REBUILDING PROGRAM (OORR)

Date: 01/09/2015

Job Number: 5001

Drawn By: J.V.L.

Sheet Number:

A1

WALL LEGEND

 PRESERVATIVE 2x6 STUD WALL - SEE WALL TYPES SHEET #A

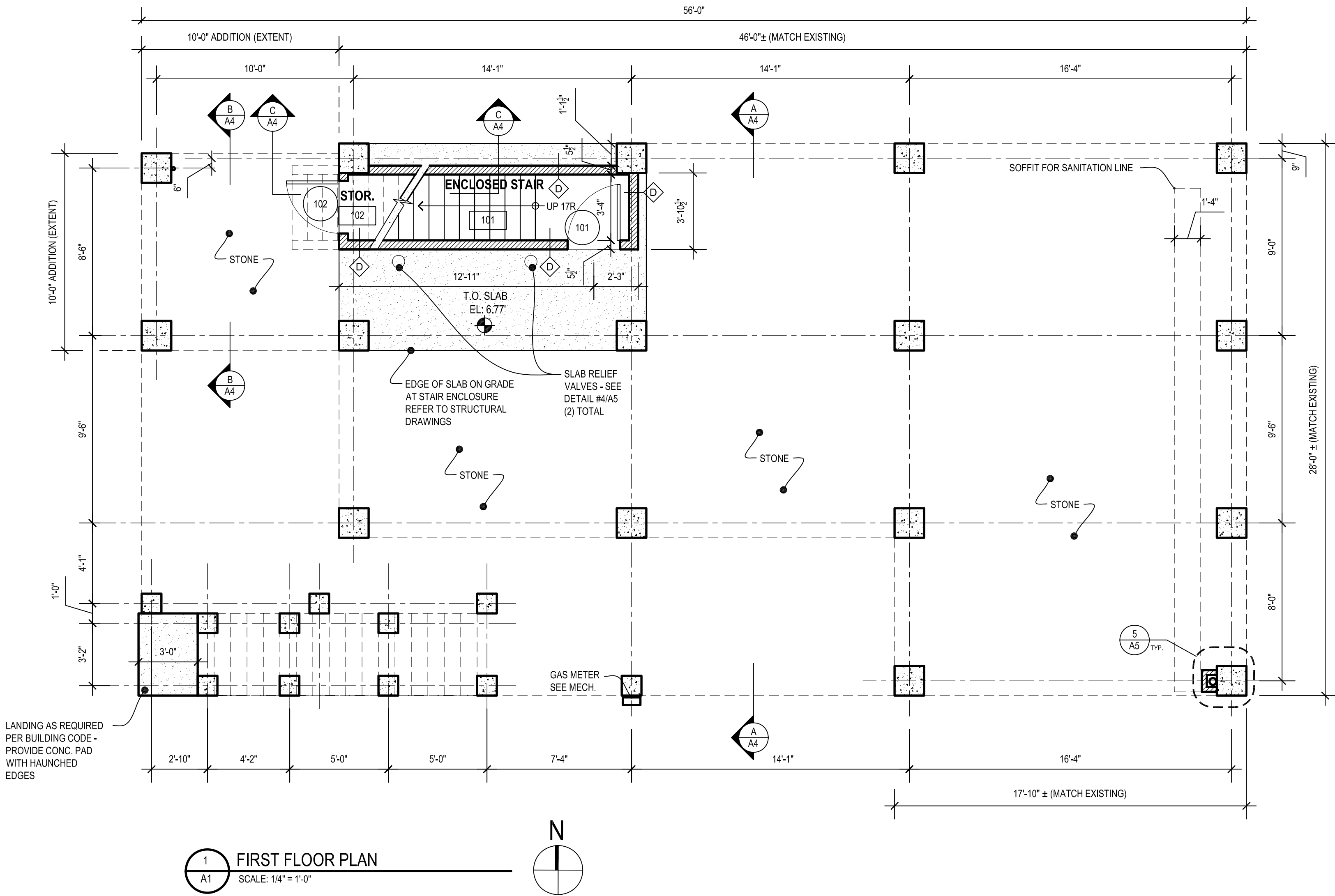
CONCRETE PIERS - SEE STRUCTURAL DRAWINGS

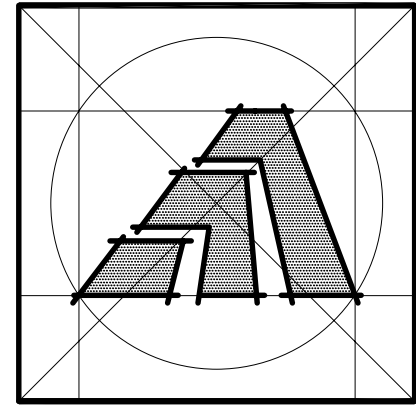
GENERAL NOTES:
1. USE SIMPSON STRAPS AND TIE DOWNS AS SPECIFIED - SEE STR'L DRAWINGS
2. CONCRETE ENCASED ELECTRODES - FOLLOW ARTICLE
250.52 (a) (3) NEC 2005-E3508.1.2 IRC 2003
3. REFER TO SHEET #A2 FOR PARTITION TYPES

PROTECTING UTILITIES

ALL WORK TO MEET THE NFIP REGULATIONS [SECTION 60.3a(3)].

3. PLUMBING - SHALL HAVE BACKUP PREVENTION VALVES. SEE PLUMBING DWG.'S





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ORANGE, CT 06477 FAX (203) 799 3871

Sheet Title:
SECOND FLOOR PLAN
AND ROOF PLAN
WALL TYPES

APPLICATION #5001

WERNER RESIDENCE
34 Elaine Road
Milford, Connecticut 06460

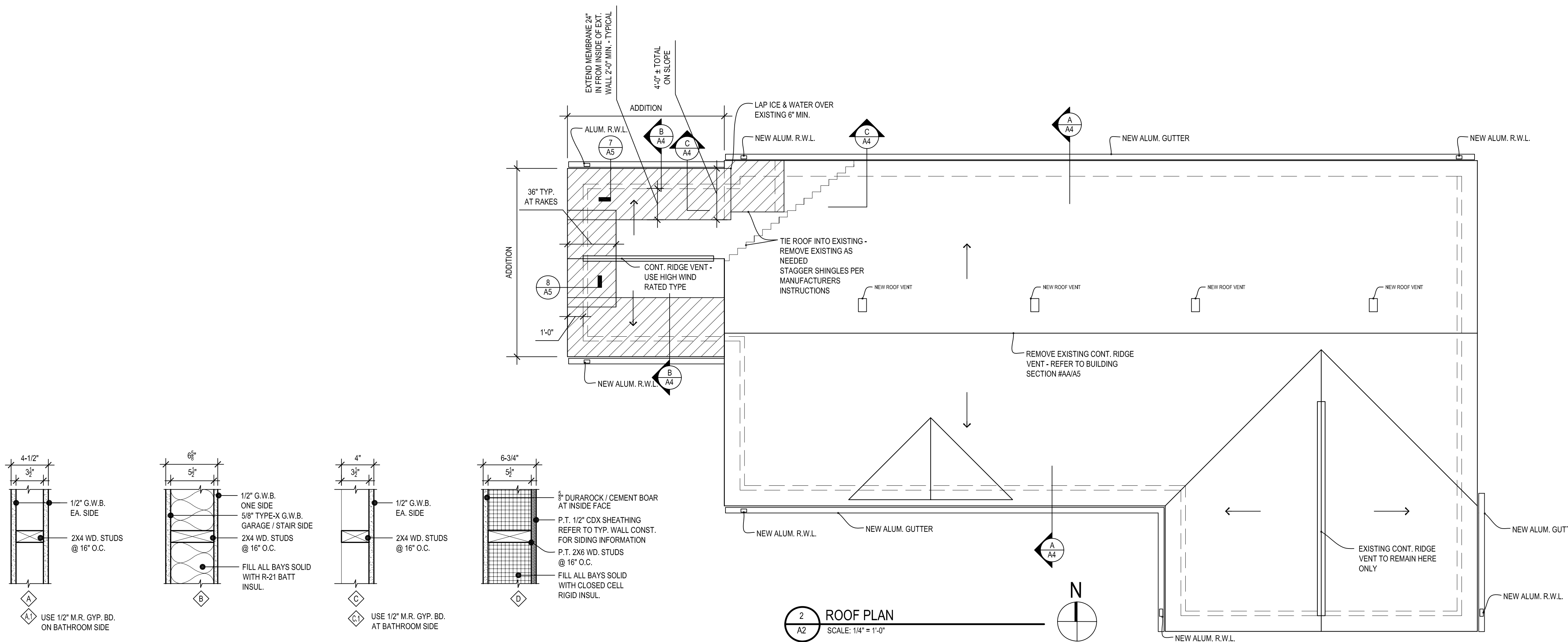
STATE OF CONNECTICUT
DEPARTMENT OF HOUSING
COMMUNITY DEVELOPMENT BLOCK GRANT
DISASTER RECOVERY PROGRAM
OWNER OCCUPIED REHABILITATION
AND REBUILDING PROGRAM (OORR)

Date: 01/09/2015

Job Number: 5001
Drawn By: J.V.L.

Sheet Number:

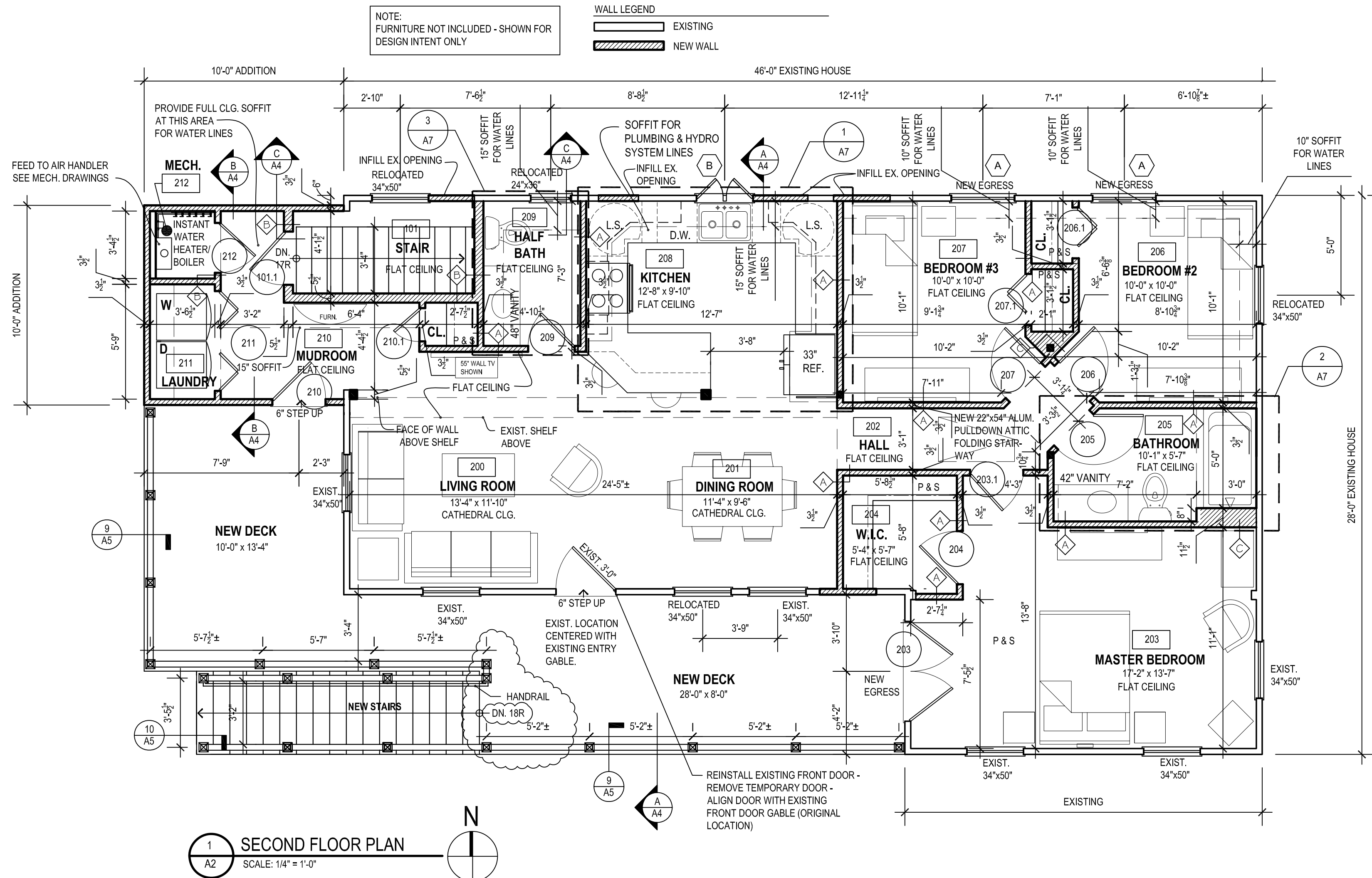
A2



PARTITION TYPES

SCALE: 1-1/2" = 1'-0"

- NOTES:
1. PROVIDE BLOCKING AS REQ'D. FOR SHELVING, ETC.
 2. ALL GYP. BD. TO BE TAPED AND COMPOUNDED (3) COATS.
 3. ALL GYP. BD. TO BE PRIMED (1) COAT AND PTD. (1) COAT.
 4. ALL DURAROCK TO BE TAPED AND COMPOUNDED AT JOINTS AND PROVIDE SKIM COAT OVER ENTIRE FACE OF BOARDS TO PROVIDE SMOOTH FINISH PAINTING.





--	--

WERNER RESIDENCE
34 Elaine Road
Milford, Connecticut 06460

STATE OF CONNECTICUT
DEPARTMENT OF HOUSING
COMMUNITY DEVELOPMENT BLOCK GRANT
DISASTER RECOVERY PROGRAM
OWNER OCCUPIED REHABILITATION
AND REBUILDING PROGRAM (OORR)

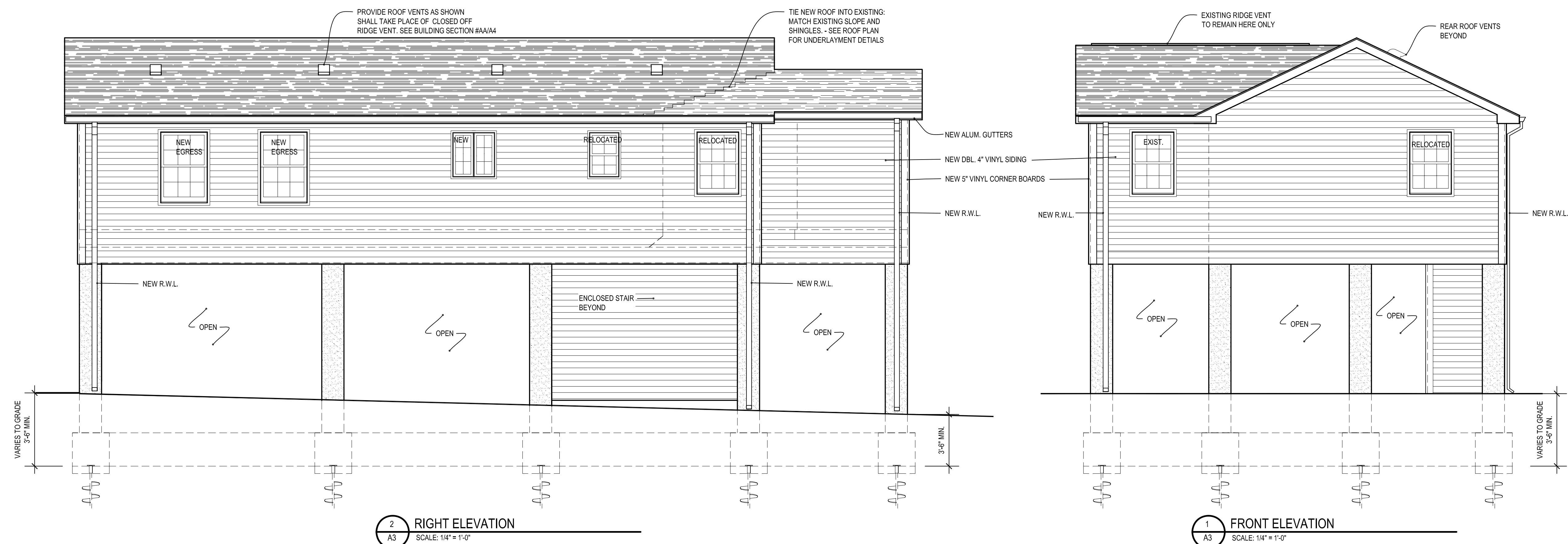
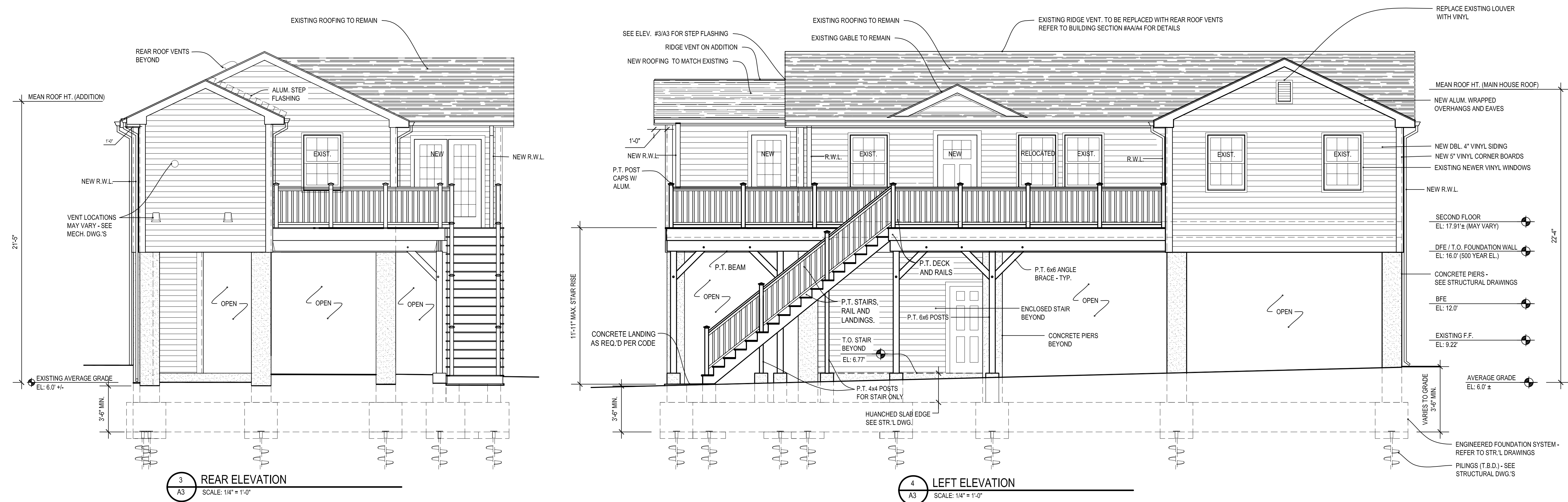
Date: 01/09/2015

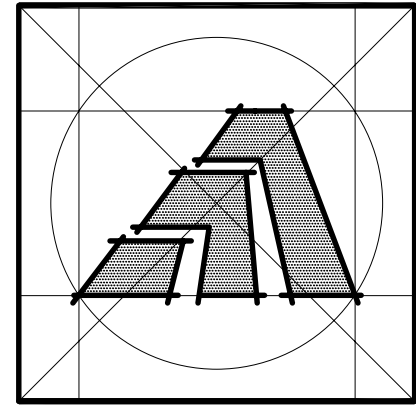
Job Number: 5001

Drawn By: J.V.L.

Sheet Number:

A3





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TEL (203) 795 5656
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Sheet Title:
BUILDING SECTIONS

APPLICATION #5001

WERNER RESIDENCE
34 Elaine Road
Milford, Connecticut 06460

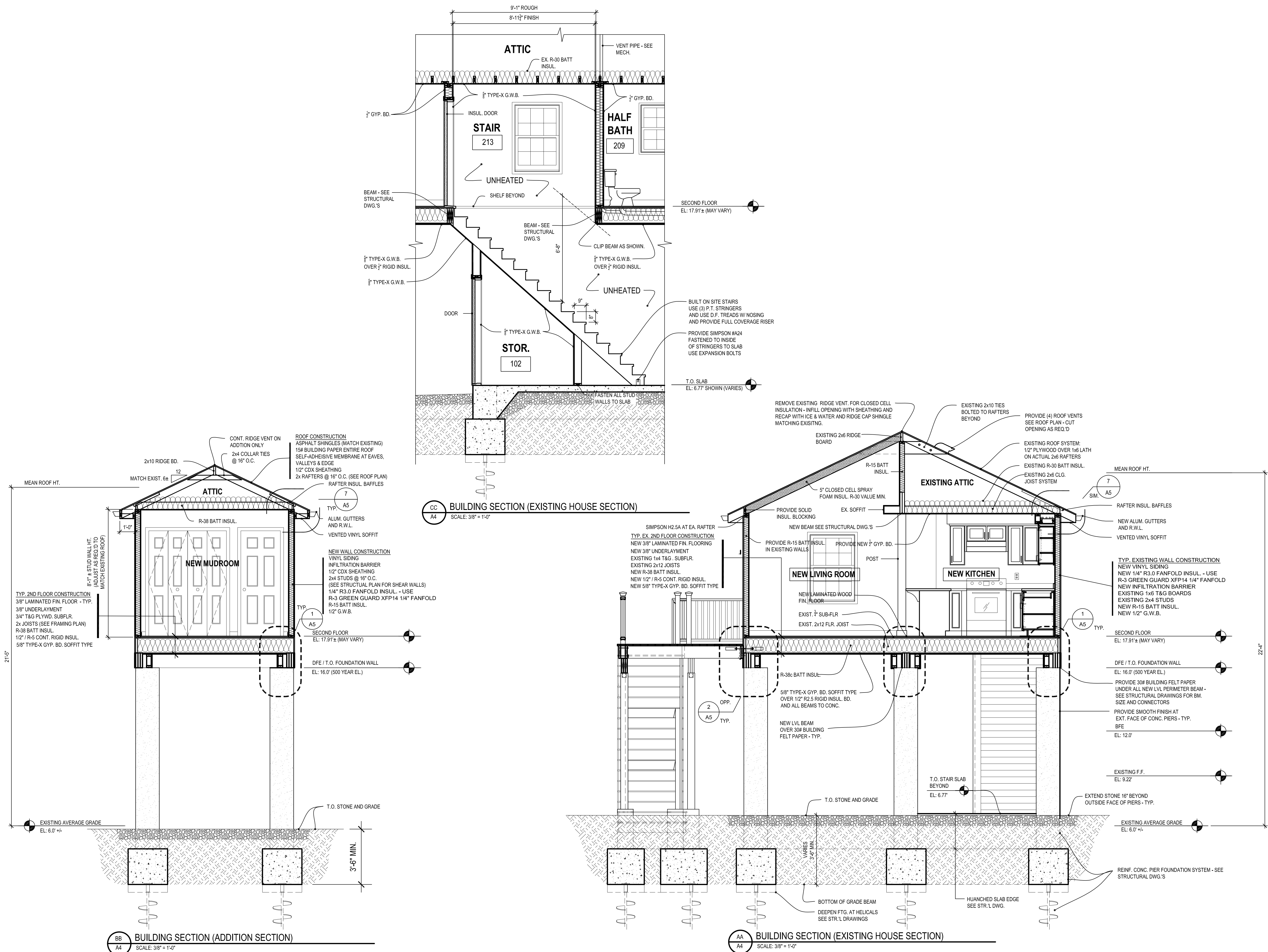
STATE OF CONNECTICUT
DEPARTMENT OF HOUSING
COMMUNITY DEVELOPMENT BLOCK GRANT
DISASTER RECOVERY PROGRAM
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AND REBUILDING PROGRAM (OORR)

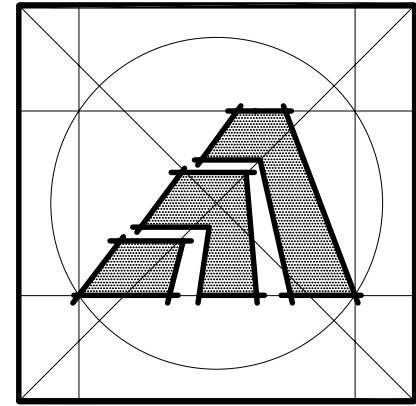
Date: 01/09/2015

Job Number: 5001
Drawn By: J.V.L.

Sheet Number:

A4





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ORANGE, CT 06477

TEL (203) 795 5656
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Sheet Title:
DETAILS

APPLICATION #5001

WERNER RESIDENCE
34 Elaine Road
Milford, Connecticut 06460

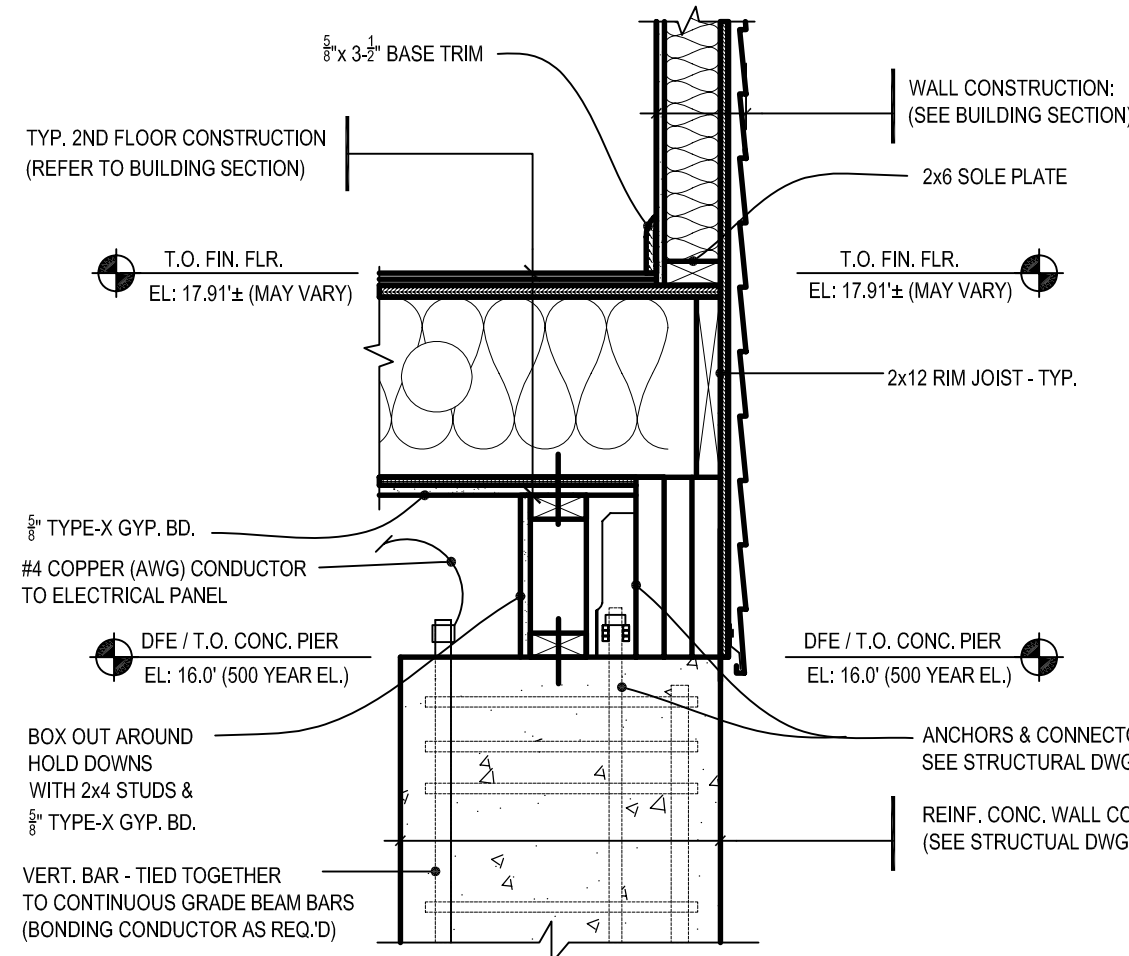
STATE OF CONNECTICUT
DEPARTMENT OF HOUSING
COMMUNITY DEVELOPMENT BLOCK GRANT
DISASTER RECOVERY PROGRAM
OWNER OCCUPIED REHABILITATION
AND REBUILDING PROGRAM (OORR)

Date: 01/09/2015

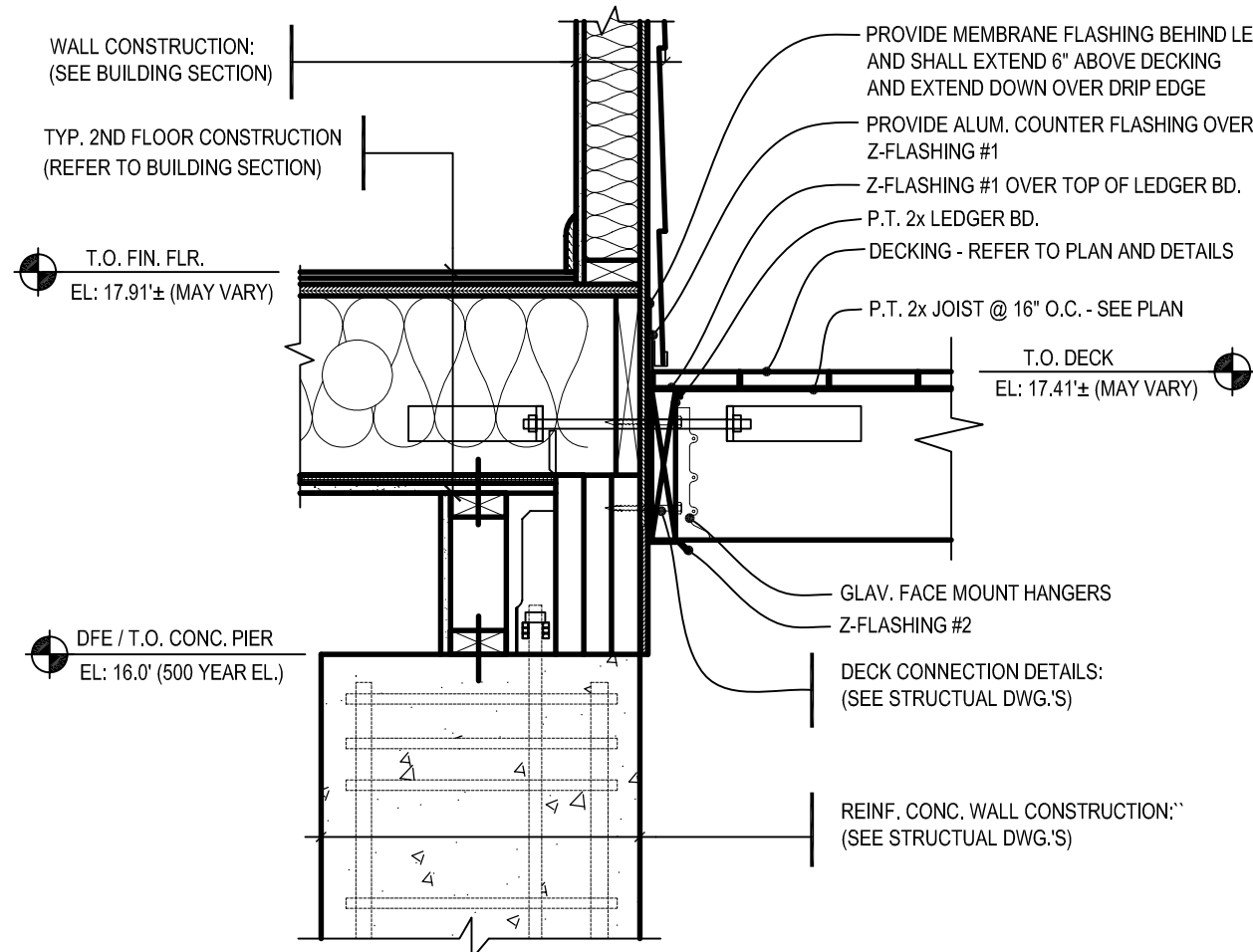
Job Number: 5001
Drawn By: J.V.L.

Sheet Number:

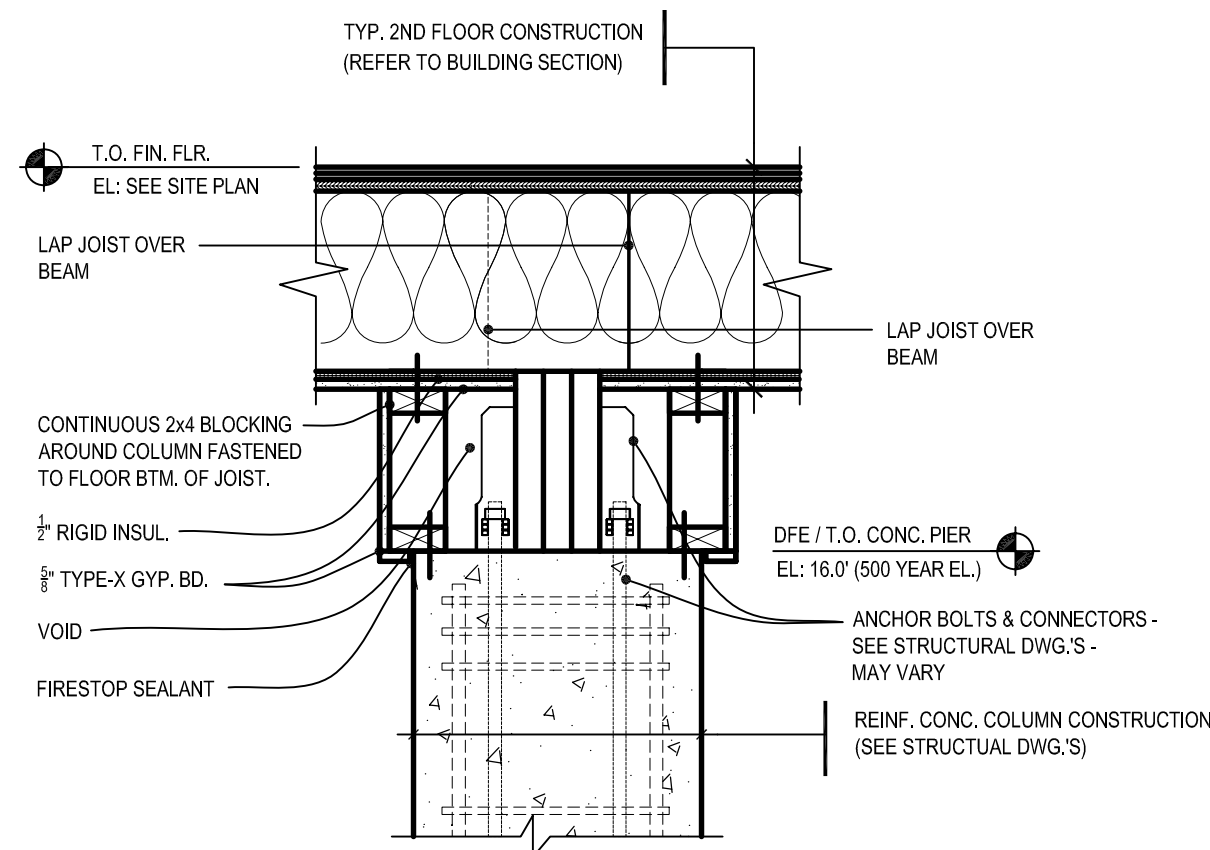
A5



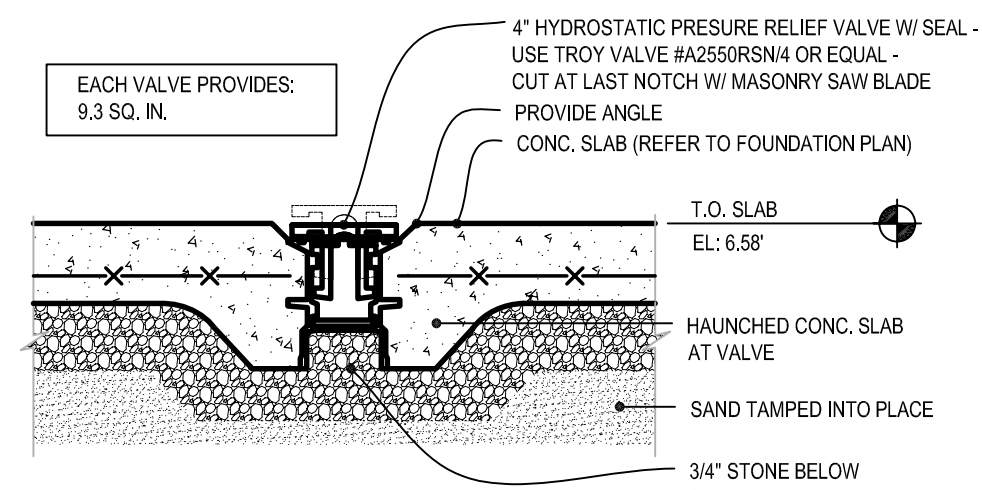
1 TYPICAL DETAIL
SCALE: 1" = 1'-0"



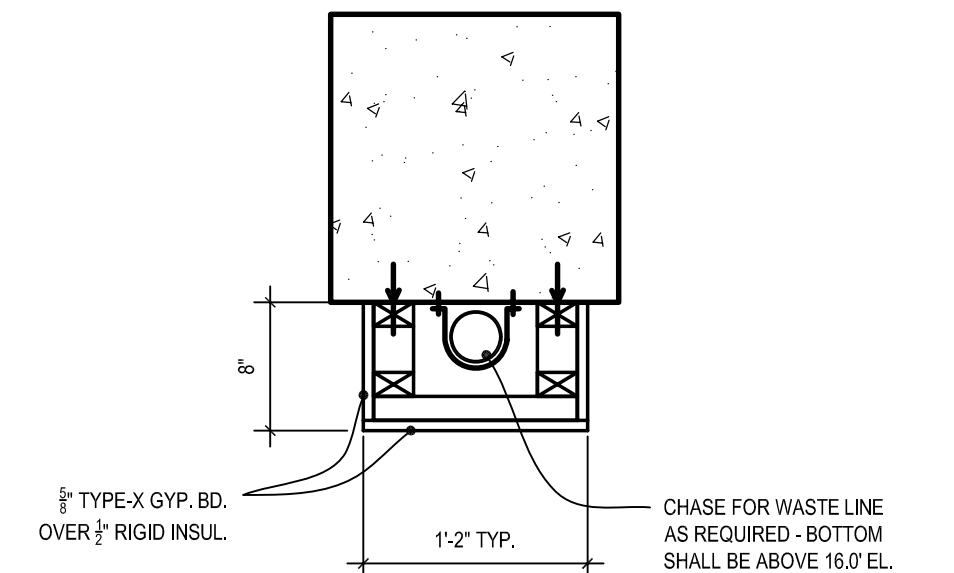
2 TYPICAL DECK / FLASHING DETAIL
SCALE: 1" = 1'-0"



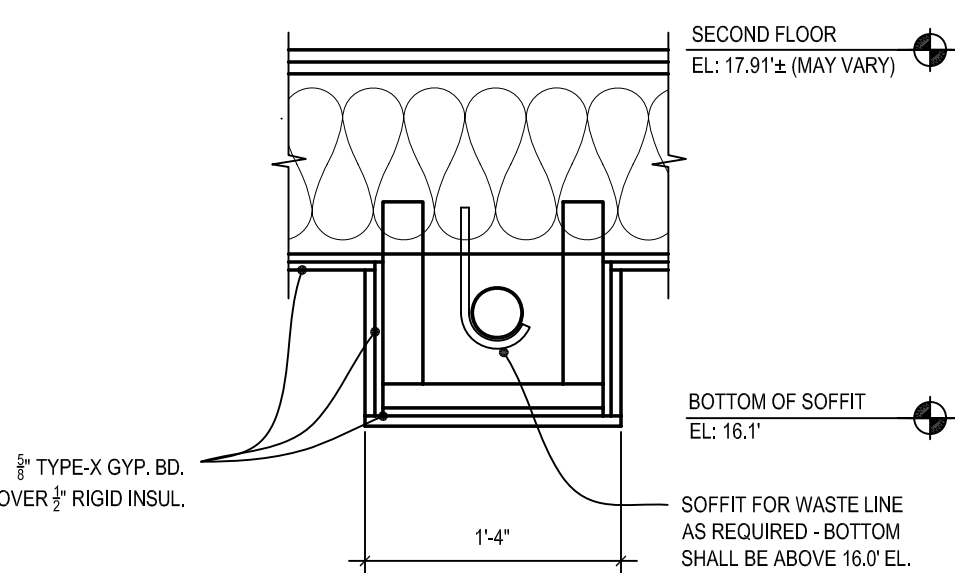
3 TYPICAL COLUMN DETAIL
SCALE: 1" = 1'-0"



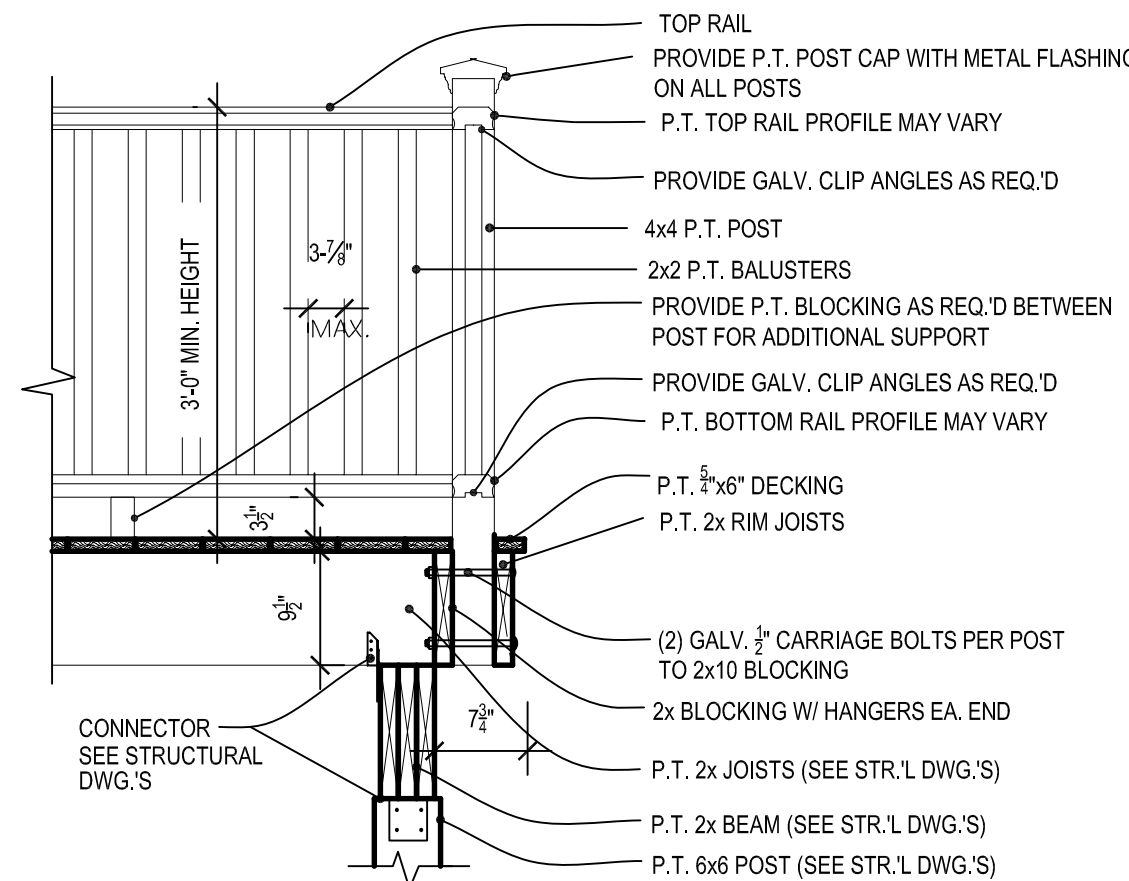
4 TYPICAL HYDRO PRESSURE RELIEF VALVE DETAIL
SCALE: 1" = 1'-0"



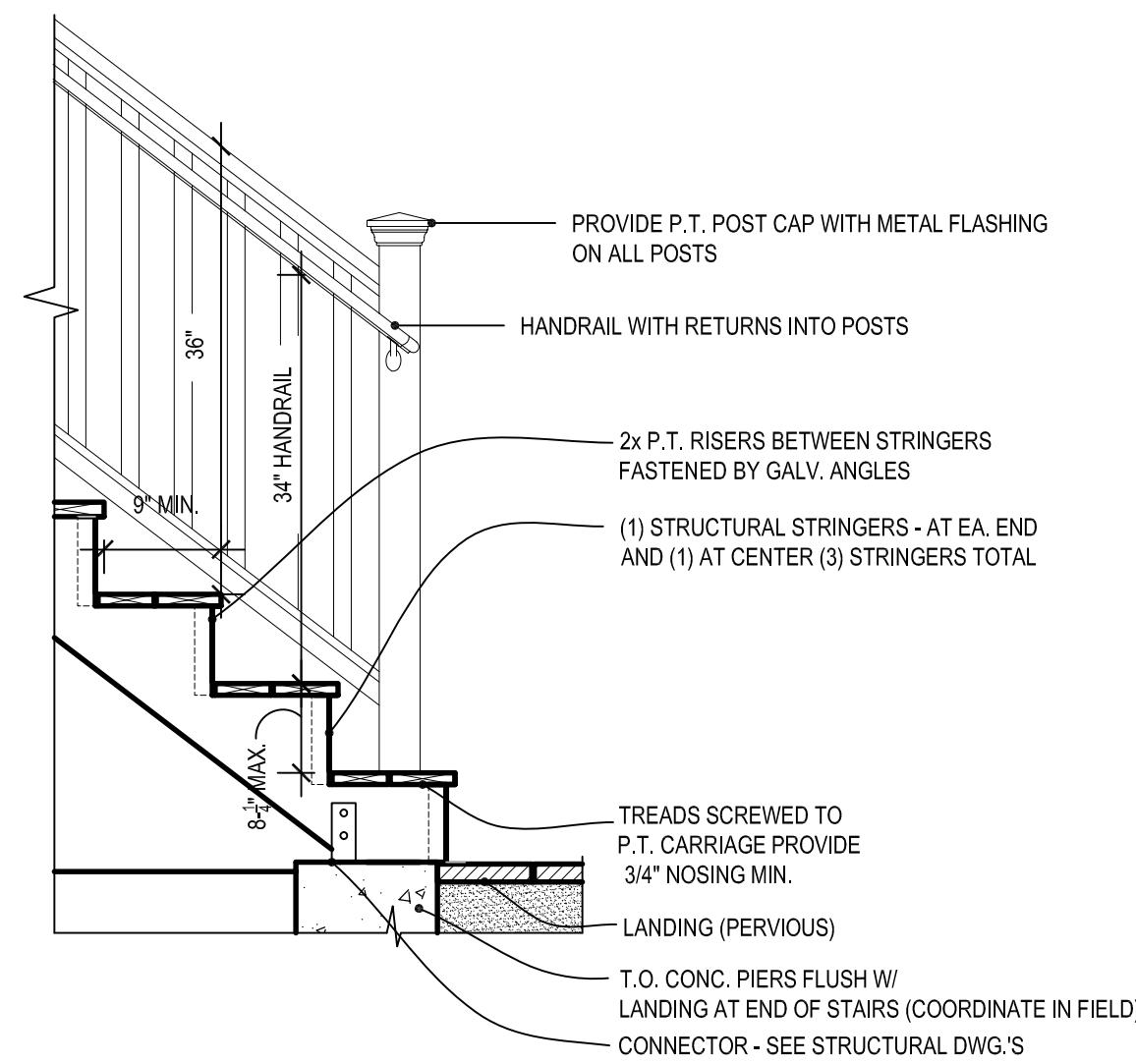
5 TYPICAL PLUMBING CHASE DETAIL
SCALE: 1" = 1'-0" (RATED PER IRC)



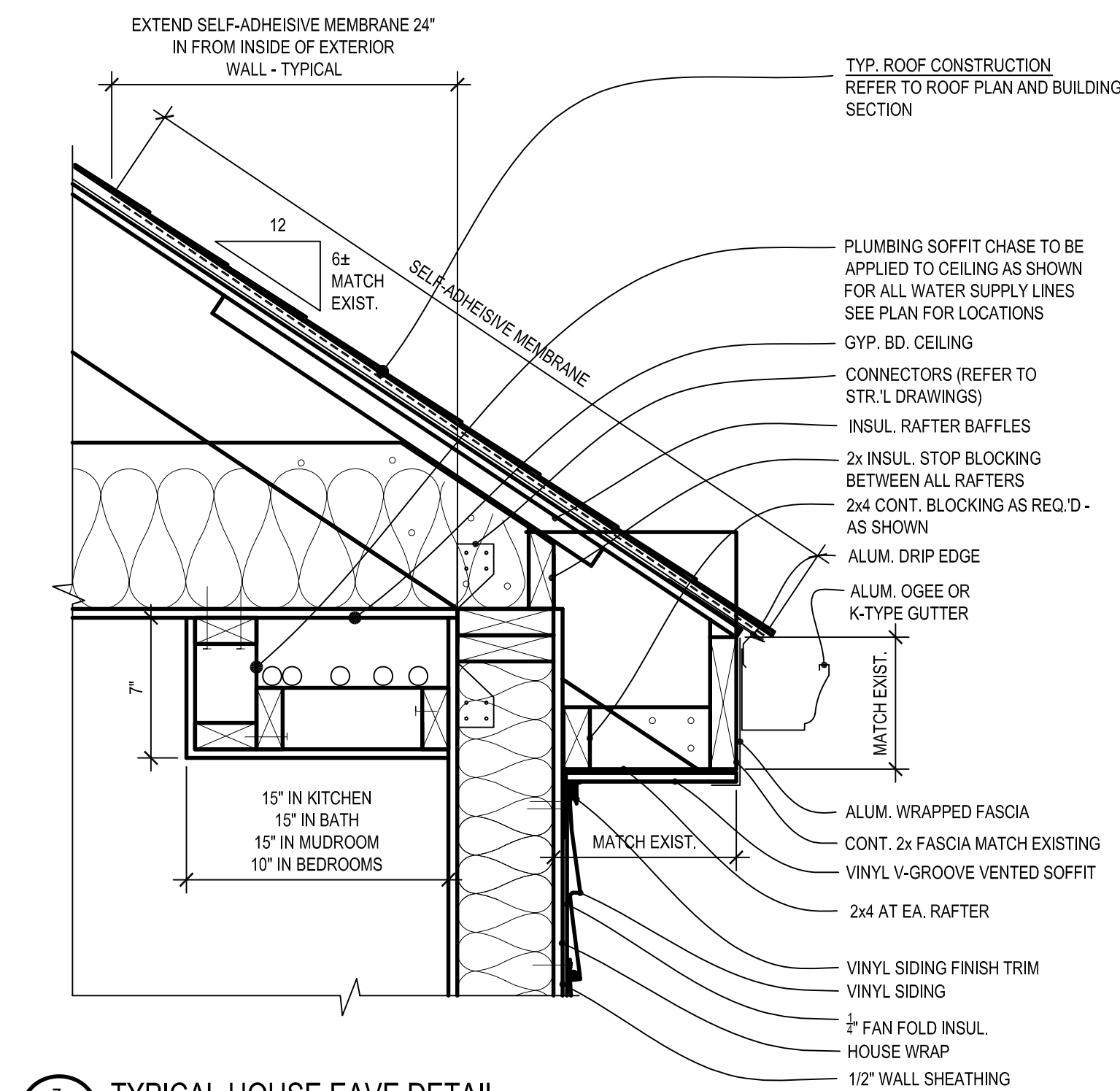
6 TYPICAL SOFFIT DETAIL
SCALE: 1" = 1'-0" (RATED PER IRC)



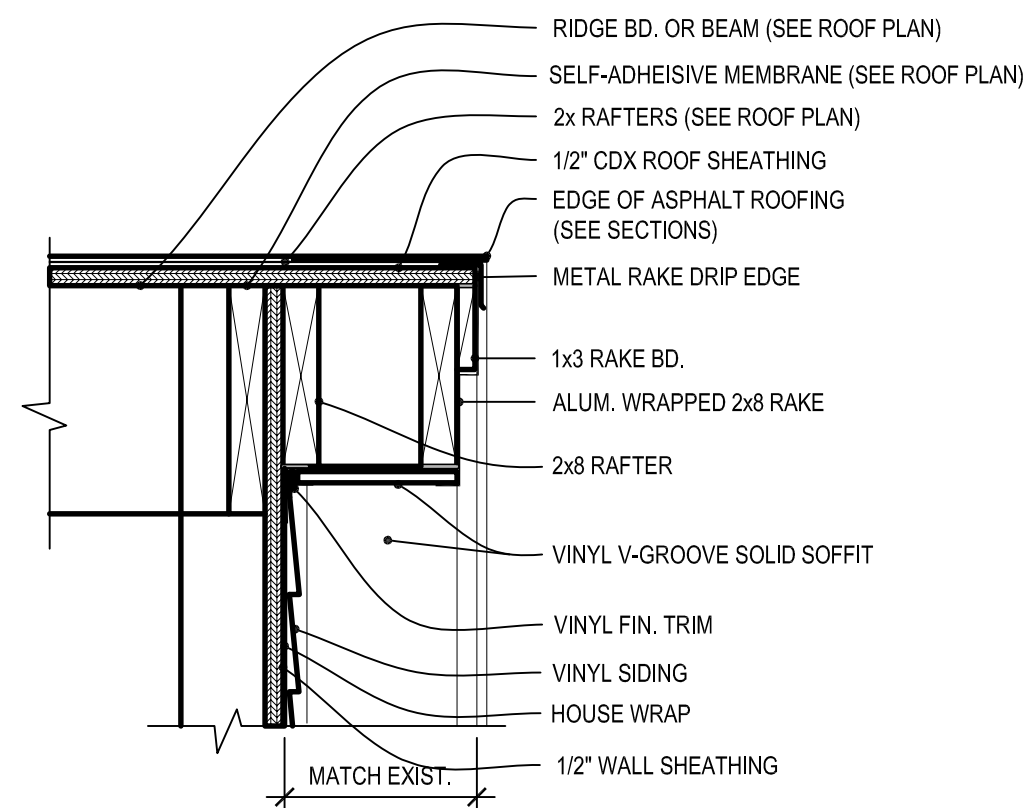
9 TYP. DECK RAIL DETAIL
SCALE: 3/4" = 1'-0"



10 DECK STAIR DETAIL
SCALE: 3/4" = 1'-0"



7 TYPICAL HOUSE EAVE DETAIL
N.T.S.



8 TYPICAL GABLE OVERHANG DETAIL
N.T.S.

FINISH SCHEDULE

REV.#	NUM.	ROOM NAME	FLOOR		BASE		NORTH WALL		EAST WALL		SOUTH WALL		WEST WALL		CEILING HEIGHT	CEILING MAT'L	REMARKS
			SUBSTRATE	FINISH	COLOR	MAT'L	FINISH	COLOR	MAT'L	FINISH	COLOR	MAT'L	FINISH	COLOR			
	101	ENCLOSED STAIR	CONC.	CONC.	N/A	VINYL	PTD	WHITE	G.W.B.	PTD	**	GWB	PTD	**	VARIES	G.W.B.	USE 5/8" TYPE-X GYP. BD.
	102	STORAGE	CONC.	CONC.	N/A	VINYL	PTD	WHITE	G.W.B.	PTD	**	GWB	PTD	**	VARIES	G.W.B.	USE 5/8" TYPE-X GYP. BD.
	200	LIVING ROOM	WD.	LWD	T.B.D.	WOOD	PTD	WHITE	-	-	**	-	-	**	VARIES	G.W.B.	-
	201	DINING ROOM	WD.	LWD	T.B.D.	WOOD	PTD	WHITE	GWB	PTD	**	GWB	PTD	**	VARIES	G.W.B.	-
	202	HALL	WD.	LWD	T.B.D.	WOOD	PTD	WHITE	GWB	PTD	**	GWB	PTD	**	VARIES	G.W.B.	-
	203	MASTER BEDROOM	WD.	LWD	T.B.D.	WOOD	PTD	WHITE	GWB	PTD	**	GWB	PTD	**	VARIES	G.W.B.	-
	204	W.I.C.	WD.	LWD	T.B.D.	WOOD	PTD	WHITE	GWB	PTD	**	GWB	PTD	**	VARIES	G.W.B.	-
	205	BATH	CMT. BD.	CT	T.B.D.	CT	STD	WHITE	GWB	PTD	**	GWB	PTD	**	7'-8"	G.W.B.	POLE AND SHELF IN CLOSET
	206	BEDROOM #2	WD.	LWD	T.B.D.	WOOD	PTD	WHITE	GWB	PTD	**	GWB	PTD	**	7'-8"	G.W.B.	USE MOISTURE RESISTANT G.W.B.
	207	BEDROOM #3	WD.	LWD	T.B.D.	WOOD	PTD	WHITE	GWB	PTD	**	GWB	PTD	**	7'-8"	G.W.B.	POLE AND SHELF IN CLOSET
	208	KITCHEN	WD.	LWD	T.B.D.	WOOD	PTD	WHITE	GWB	PTD	**	GWB	PTD	**	8'-0"	G.W.B.	POLE AND SHELF IN CLOSET
	209	HALF BATH	CMT. BD.	CT	T.B.D.	CT	STD	WHITE	GWB	PTD	**	GWB	PTD	**	7'-8"	G.W.B.	-
	210	MUDROOM	WD.	LWD	T.B.D.	WOOD	PTD	WHITE	GWB	PTD	**	GWB	PTD	**	7'-8"	G.W.B.	-
	211	LAUNDRY	CMT. BD.	CT	T.B.D.	CT	STD	WHITE	GWB	PTD	**	GWB	PTD	**	8'-0"	G.W.B.	PROVIDE 60" x 16" SHELF
	212	MECHANICAL	CMT. BD.	CT	T.B.D.	CT	STD	WHITE	GWB	PTD	**	GWB	PTD	**	VARIES	G.W.B.	-

WINDOW SCHEDULE

REV.#	NO.	TYPE & FRAME SIZE (WIDTH x HEIGHT)	UNIT #	GRILLE	QTY / SETS	TYPE	DETAILS	REMARKS
	A	3'-2"x4'-9"	TW3046		2	D.H.	HEAD 6/A6 JAMB 7/A6 SILL 5/A6	
	B	3'-0"x3'-4"	CR235		1	C.SMT	6/A6 7/A6 5/A6	EGRESS

ALL WINDOWS AND EXTERIOR DOORS SHALL HAVE VINYL OR ALUM CLAD EXT. WITH PAINTED WOOD INTERIOR - ALL WINDOWS SHALL BE 0.31 PERFORMANCE NOTE: WINDOW SHALL BE 0.31 U-FACTOR BETTER AND MIN. DP 50 RATINGS.

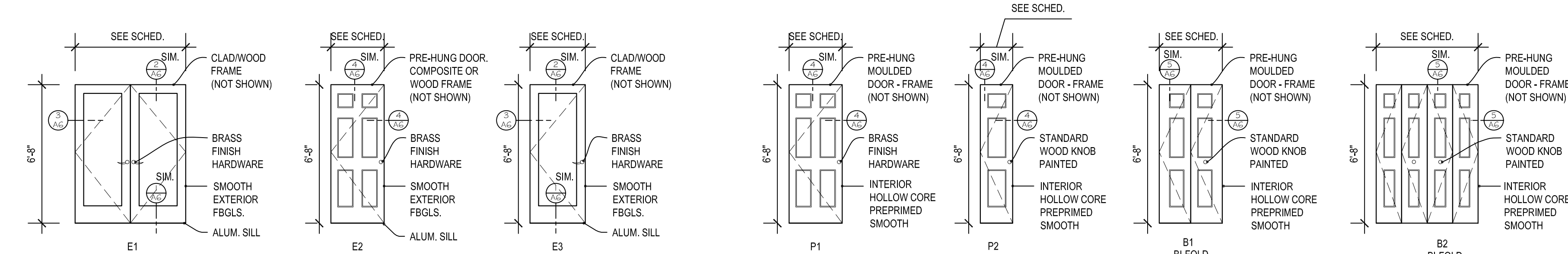
ALL DBL HUNGS SHALL BE TILT-WASH AND ALL WINDOWS AND DOORS SHALL HAVE DESIGN PRESSURE 50 (DP50). PROVIDE SCREENS AND HARDWARE. ALL SOLID INSULATED EXTERIOR DOORS ARE TO BE SMOOTH FIBERGLASS UNLESS NOTED OTHERWISE. VERIFY PRIOR TO ORDERING UNITS.

DOOR SCHEDULE

REV.#	DR. NUM.	ROOM NUMBER	DOOR SIZE OR UNIT NUMBER (WIDTH x HEIGHT)	DOOR		FRAME		DETAILS		REMARKS
				TYPE	MAT'L	FINISH	TYPE	MAT'L	FINISH	
	101	101	3'-0" x 6'-8" (SINGLE DOOR)	E2	FGLS	M.F.	-	CMST	PTD	20 MIN FIRE RATED DR. & JAMB W/ SELF CLOSING HINGE
	101.1	101	3'-0" x 6'-8" (SINGLE DOOR)	E2	FGLS	M.F.	-	CMST	PTD	20 MIN FIRE RATED DR. & JAMB W/ SELF CLOSING HINGE
	102	102	3'-0" x 6'-8" (SINGLE DOOR)	E2	FGLS	M.F.	-	CMST	PTD	20 MIN FIRE RATED DR. & JAMB W/ SELF CLOSING HINGE
	203	203	2'-8" x 6'-8" (SINGLE DOOR)	P1	WD	PTD	-	WD	PTD	20 MIN FIRE RATED DR. & JAMB W/ SELF CLOSING HINGE
	203.1	203	2'-8" x 6'-8" (SINGLE DOOR)	P1	WD	PTD	-	WD	PTD	20 MIN FIRE RATED DR. & JAMB W/ SELF CLOSING HINGE
	204	204	2'-8" x 6'-8" (SINGLE DOOR)	P1	WD	PTD	-	WD	PTD	20 MIN FIRE RATED DR. & JAMB W/ SELF CLOSING HINGE
	205	205	2'-8" x 6'-8" (SINGLE DOOR)	P1	WD	PTD	-	WD	PTD	20 MIN FIRE RATED DR. & JAMB W/ SELF CLOSING HINGE
	206	206	2'-8" x 6'-8" (SINGLE DOOR)	P1	WD	PTD	-	WD	PTD	20 MIN FIRE RATED DR. & JAMB W/ SELF CLOSING HINGE
	206.1	206	2'-8" x 6'-8" (BI-FOLD DOOR)	B1	WD	PTD	-	WD	PTD	20 MIN FIRE RATED DR. & JAMB W/ SELF CLOSING HINGE
	207	207	2'-8" x 6'-8" (BI-FOLD DOOR)	B1	WD	PTD	-	WD	PTD	20 MIN FIRE RATED DR. & JAMB W/ SELF CLOSING HINGE
	207.1	207	2'-8" x 6'-8" (BI-FOLD DOOR)	B1	WD	PTD	-	WD	PTD	20 MIN FIRE RATED DR. & JAMB W/ SELF CLOSING HINGE
	208	208	2'-4" x 6'-8" (SINGLE DOOR)	P1	WD	PTD	-	WD	PTD	20 MIN FIRE RATED DR. & JAMB W/ SELF CLOSING HINGE
	210	210	2'-8" x 6'-8" (SINGLE DOOR)	P1	WD	PTD	-	WD	PTD	20 MIN FIRE RATED DR. & JAMB W/ SELF CLOSING HINGE
	210.1	210	1'-8" x 6'-8" (SINGLE DOOR)	P2	WD	PTD	-	WD	PTD	20 MIN FIRE RATED DR. & JAMB W/ SELF CLOSING HINGE
	211	211	5'-0" x 6'-8" (BI-FOLD DOOR)	B2	WD	PTD	-	WD	PTD	20 MIN FIRE RATED DR. & JAMB W/ SELF CLOSING HINGE
	212	212	2'-8" x 6'-8" (SINGLE DOOR)	P1	WD	PTD	-	WD	PTD	20 MIN FIRE RATED DR. & JAMB W/ SELF CLOSING HINGE

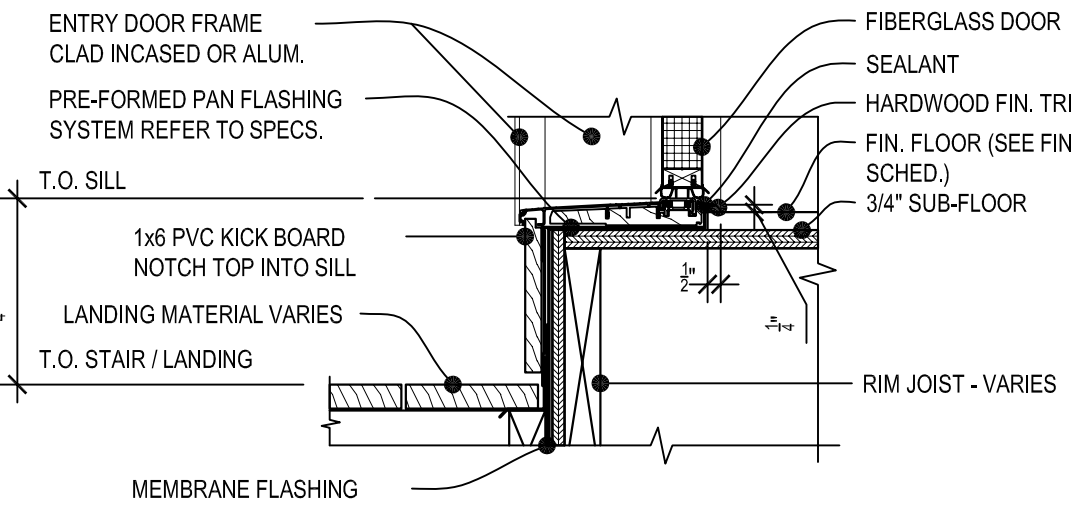
NOTE: DOOR SUPPLIER IS TO REVIEW ALL PLANS, ELEVATIONS & SCHEDULES. WINDOW & DOOR SUPPLIER IS TO REVIEW ALL ASPECTS OF DOOR SPECIFICATIONS & FUNCTIONS WITH THE OWNER AND/OR GENERAL CONTRACTOR. DOOR SUPPLIER IS TO PROVIDE SUBMITTALS FOR APPROVAL OF ALL SUPPLIED ITEMS BEFORE PLACING DOOR ORDER.

HARDWARE:
1# KEYPED ENTRY KNOB SET - SINGLE CYLINDER - BRASS
2# ANDERSON KEYPED LOCK HANDLE - BRASS
3# NOT USED
4# NOT USED
5# INTERIOR PRIVACY KNOB SET - BRASS
6# NOT USED
7# INTERIOR PASSAGE KNOB SET - BRASS
8# INTERIOR BI-FOLD KIT W/ WOOD DUMMY DOOR KNOB



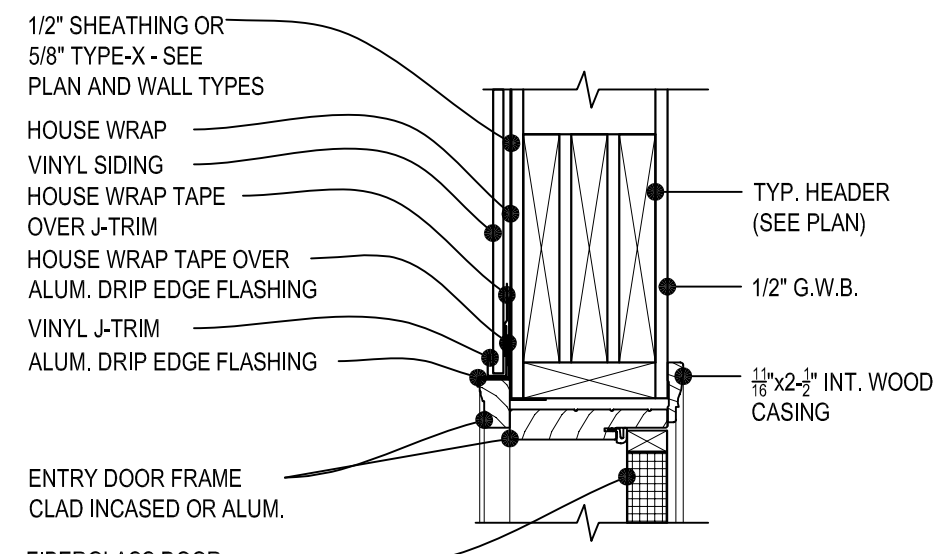
DOOR TYPES

SCALE: 1/4" = 1'-0"



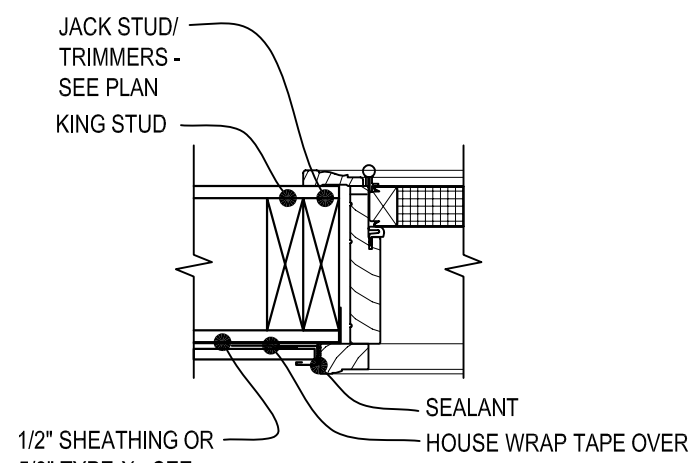
1 EXT. DOOR SILL DETAIL

A6 SCALE: 1-1/2" = 1'-0" REFER TO SIM. DETAIL #A/AS



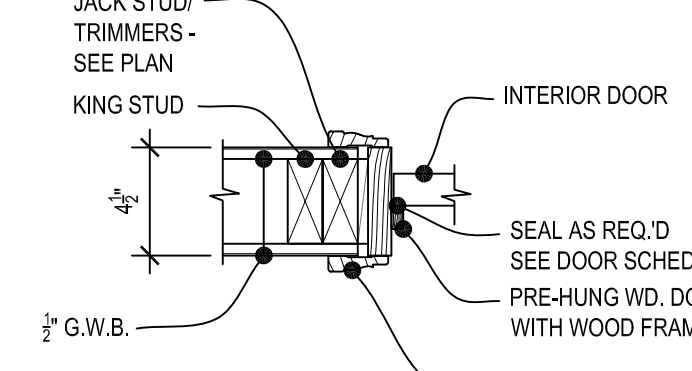
2 EXT. HEAD DETAIL

A6 SCALE: 1-1/2" = 1'-0"



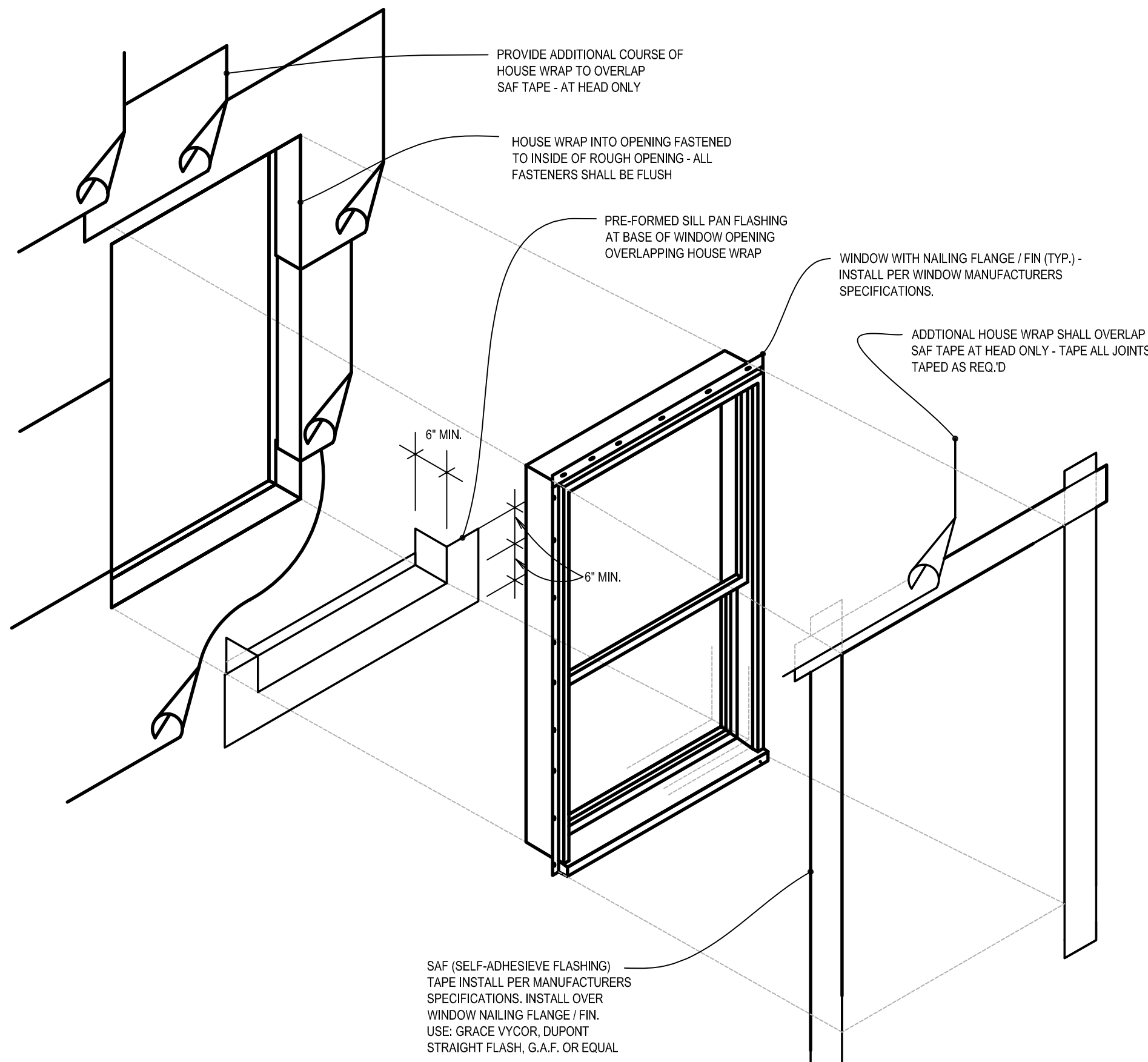
3 EXT. JAMB DETAIL

A6 SCALE: 1-1/2" = 1'-0"



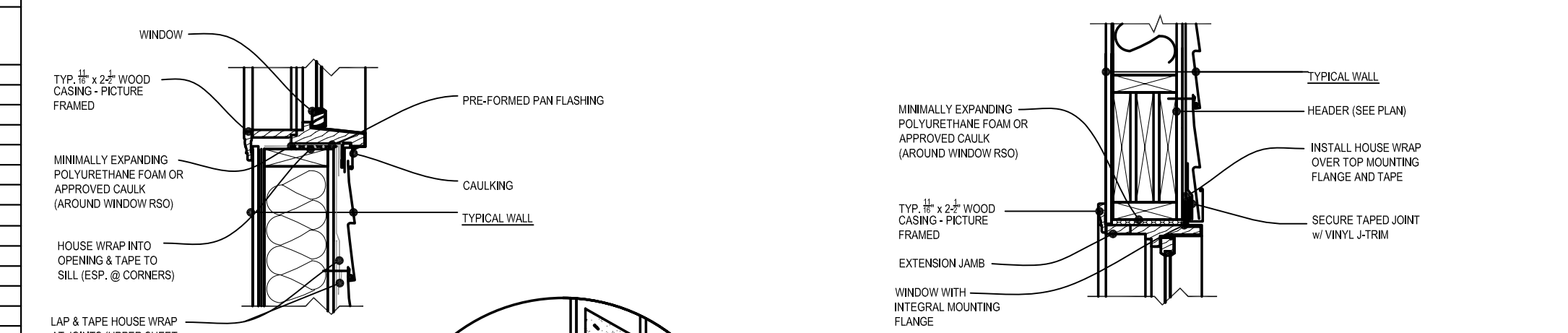
4 INT. JAMB DETAIL

A6 SCALE: 1-1/2" = 1'-0" (HEAD SIM.)



9 WINDOW SILL DETAIL

A6 SCALE: N.T.S.



6 WINDOW HEAD DETAIL

A6 SCALE: 1" = 1'-0" CLAD DOOR SIMILAR

7 WINDOW JAMB DETAIL

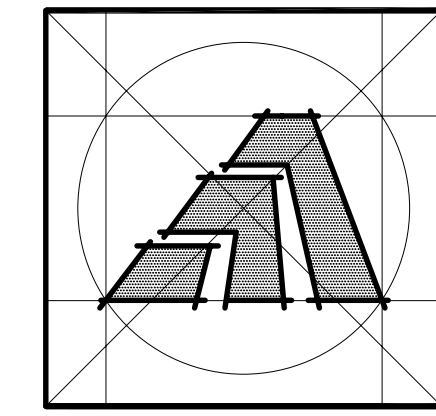
A6 SCALE: 1" = 1'-0" CLAD DOOR SIMILAR

5 WINDOW SILL DETAIL

A6 SCALE: 1" = 1'-0" DOOR SILL SIMILAR

8 WALL PENETRATION DETAIL

A6 SCALE: 1" = 1'-0"



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Sheet Title:
WINDOW & DOOR SCHEDULES
AND DETAILS. FINISH SCHED.

APPLICATION #5001

WERNER RESIDENCE

34 Elaine Road
Milford, Connecticut 06460

STATE OF CONNECTICUT
DEPARTMENT OF HOUSING
COMMUNITY DEVELOPMENT BLOCK GRANT
DISASTER RECOVERY PROGRAM
OWNER OCCUPIED REHABILITATION
AND REBUILDING PROGRAM (OORR)

Date: 01/09/2015

Job Number: 5001
Drawn By: J.V.L.

Sheet Number:

A6

GENERAL NOTES:

1. THE STRUCTURAL PLANS AND SPECIFICATIONS, TO THE BEST OF OUR KNOWLEDGE, COMPLY WITH THE APPLICABLE REQUIREMENTS OF THE 2009 INTERNATIONAL RESIDENTIAL CODE AND THE 2003 INTERNATIONAL BUILDING CODE, LATEST EDITION AS SUPPLEMENTED, AMENDED, AND ADOPTED BY THE STATE OF CONNECTICUT.
2. THE CONTRACTOR SHALL COMPLY WITH THE REQUIREMENTS OF THE INTERNATIONAL INTERNATIONAL RESIDENTIAL CODE AND THE INTERNATIONAL BUILDING CODE, LATEST EDITION AND ALL APPLICABLE FEDERAL AND STATE CODES, STANDARDS, REGULATIONS, AND LAWS.
3. ALL REFERENCED STANDARDS REFER TO THE EDITION IN FORCE AT THE TIME THESE PLANS AND SPECIFICATIONS ARE ISSUED FOR PERMIT.
4. WORK NOT INDICATED ON A PART OF THE DRAWINGS BUT REASONABLY IMPLIED TO BE SIMILAR TO THAT SHOWN AT CORRESPONDING PLACES SHALL BE REPEATED.
5. IN ANY CASE OF CONFLICT BETWEEN THE NOTES, DETAILS AND SPECIFICATIONS, THE MOST RIGID REQUIREMENTS SHALL GOVERN. CONTRACTOR SHALL MAKE NO DEVIATION FROM DESIGN DRAWINGS WITHOUT WRITTEN APPROVAL OF THE ARCHITECT.
6. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS AND COORDINATE WITH ARCHITECTURAL DRAWINGS, DRAWINGS FROM OTHER CONSULTANTS, PROJECT SHOP DRAWINGS AND FIELD CONDITIONS.
7. THE CONTRACTOR SHALL PROTECT EXISTING FACILITIES, STRUCTURES, AND UTILITY LINES FROM ALL DAMAGE.
8. JOB SAFETY AND CONSTRUCTION PROCEDURES ARE THE RESPONSIBILITY OF THE CONTRACTOR.
9. THE BUILDING IS DESIGNED FOR THE FOLLOWING UNIFORMLY DISTRIBUTED LIVE LOADS:
 - (A) SNOW LOAD – BASIC GROUND SNOW LOAD IS 30 PSF WITH APPLICABLE SNOW SHADOWING FACTORS.
 - (B) WIND LOADS – DESIGN WIND SPEED: 100 MPH. EXPOSURE "C" AND IMPORTANCE FACTOR: 1.0.
 - (C) SEISMIC LOADS – NOT APPLICABLE.
10. ALLOWABLE PRESUMPTIVE SOIL BEARING PRESSURE: LESS THAN 1000 PSF.
11. DESIGN STRESSES AND MATERIALS:
 - a. CONCRETE (MINIMUM 28–DAY STRENGTH, NW) FOUNDATION WALLS AND FOOTINGS 3,000 PSI SLABS ON GRADE (INTERIOR) 3,500 PSI
 - b. REINFORCED STEEL – ASTM A615, A616, & A617 FY = 60 KSI.
 - c. WELDED WIRE FABRIC– ASTM A185 FY = 60 KSI.
 - d. STRUCTURAL STEEL ROLLED SHAPES – ASTM A572 FY = 50 KSI.
 - e. STEEL ANGLES & PLATES – ASTM A36 FY = 36 KSI.
 - f. BOLTS – ASTM A325.
 - g. BRG WALL STUDS No. 2 DOUGLAS FIR W/Fc=1300PSI & Fb=825PSI
 - h. LUMBER NO. 2 DOUGLAS FIR w/Fb = 825 PSI Fv = 90 PSI
 - i. ENGINEERED LUMBER LVL E= 2,000KSI Fb=2600PSI
 - j. ENGINEERED LUMBER LSL E= 1,500KSI Fb=2250PSI
 - k. PLYWOOD WALL & ROOF SHEATHING – APA RATED SHEATHING 32/16

FOUNDATION NOTES:

1. DOWELS FROM FOOTINGS INTO PIERS AND WALLS ABOVE, SHALL BE THE SAME SIZE AND NUMBER AS VERTICAL REINFORCEMENT IN PIERS AND WALLS, AND SHALL BE EXTENDED LITE INTO FOOTINGS AND LITS INTO PIERS AND WALLS UNLESS OTHERWISE SHOWN.
2. CENTERLINE OF FOOTINGS AND CENTERLINE OF WALLS, PIERS, COLUMNS, AND BEAMS SHALL BE THE SAME UNLESS OTHERWISE NOTED.
3. NO BACK FILLING SHALL BE DONE AGAINST FOUNDATION AND RETAINING WALLS UNTIL CONCRETE HAS ATTAINED AT LEAST 75% OF ITS 28 DAY STRENGTH. BEFORE BACK FILLING, PROVIDE BRACING FOR WALLS SUSTAINING MORE THAN 3 FEET OF EARTH PRESSURE. THIS BRACING SHALL REMAIN IN PLACE UNTIL ALL SLABS AND BEAMS FRAMING INTO WALL (INCLUDING SLAB ON GRADE) HAVE BEEN PLACED AND SET.
4. CONTRACTOR SHALL BE RESPONSIBLE TO ADEQUATELY PROTECT ALL EXCAVATION SLOPES. WHERE NECESSARY SHEATHING AND SHORING OF EXCAVATION SHALL BE PROVIDED WITH ALL REQUIRED TIE BACKS AND BRACING.
5. THE MAXIMUM SLOPE BETWEEN TWO ADJACENT FOOTINGS SHALL NOT EXCEED 2 HORIZONTAL TO 1 VERTICAL.
6. FOOTINGS ADJACENT TO EXISTING BUILDING FOUNDATIONS SHALL BE DROPPED TO MATCH BOTTOM OF NEW FOOTING TO BOTTOM OF EXISTING.

REINFORCED CONCRETE NOTES:

1. STRUCTURAL CONCRETE AND CONCRETING PRACTICES SHALL CONFORM WITH ACI–318– 02, "AMERICAN CONCRETE INSTITUTE, BUILDING CODE FOR REINFORCED CONCRETE." DETAILS SHALL BE IN ACCORDANCE WITH ACI–135, "MANUAL OF STANDARD PRACTICE FOR DETAILING REINFORCED CONCRETE STRUCTURES" UNLESS OTHERWISE NOTED ON THE DRAWINGS.
2. ALL STRUCTURAL CONCRETE SHALL BE NORMAL WEIGHT STONE CONCRETE. CONCRETE FOR FOOTINGS, PIERS, GRADE BEAMS, FOUNDATION WALLS, PILE CAPS, SLABS ON GRADE, AND RETAINING WALLS SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 3000 PSI AT 28 DAYS UNLESS OTHERWISE NOTED ON THE DRAWINGS.
3. ALL EXPOSED CONCRETE SHALL HAVE AN AIR ENTRAINING AGENT.
4. ALL REINFORCING BARS SHALL CONFORM TO ASTM A615, GRADE 60.
5. WELDED WIRE FABRIC SHALL CONFORM TO ASTM A185. CHAIR OR LIFT WIRE FABRIC DURING CONCRETE PLACEMENT TO INSURE PROPER POSITION IN SLAB.
6. ALL REINFORCEMENT SHALL BE SECURELY HELD IN PLACE WHILE PLACING CONCRETE. IF REQUIRED ADDITIONAL BARS OR STIRRUPS SHALL BE PROVIDED BY THE CONTRACTOR TO FURNISH SUPPORT OR ALL BARS.
7. ALL REINFORCING BARS, SHALL BE LAPPED AS SPECIFICALLY DETAILED ON DRAWINGS. WHERE NOT SPECIFICALLY INDICATED ON THE DRAWINGS, ALL REINFORCING BARS SHALL BE LAPPED USING THE TENSION SPLICE LENGTHS IN THE SCHEDULE ON DRAWINGS. LAP WALL TOP HORIZONTAL REINFORCEMENT AT CENTER OF SPAN. LAP WALL BOTTOM HORIZONTAL REINFORCEMENT AT SUPPORT. LAP INSIDE FACE WALL VERTICAL REINFORCEMENT AT SUPPORT. LAP OUTSIDE FACE VERTICAL WALL REINFORCEMENT AT MID–HEIGHT OF WALL. UNLESS OTHERWISE NOTED TERMINATE CONTINUOUS BARS AT DISCONTINUOUS ENDS WITH STANDARD HOOKS.

8. MINIMUM CONCRETE COVER SHALL BE 3/4 INCH FOR SLABS, 1 INCH FOR WALLS AND 1–1/2 INCHES FOR COLUMNS. MINIMUM CONCRETE COVER FOR REINFORCING STEEL SHALL BE 1 INCH FOR SLABS ON GRADE AND WALLS. ALL CONCRETE EXPOSED TO WEATHER OR EARTH SHALL HAVE MINIMUM CONCRETE COVER OF 2 INCHES FOR BARS LARGER THAN #5, 1–1/2 INCHES FOR #5 BARS OR SMALLER. FOR ALL CONCRETE CAST AGAINST EARTH PROVIDE 3 INCHES COVER. ALL CONCRETE PLACED AGAINST PERMANENT SHEETING SHALL HAVE 4 INCHES COVER.
 9. PROVIDE CONSTRUCTION JOINTS IN ACCORDANCE WITH ACI–318, CHAPTER 6.4. SUBMIT SHOP DRAWINGS SHOWING CONSTRUCTION JOINT LOCATIONS ALONG WITH THE SEQUENCE OF POURS FOR THE STRUCTURAL ENGINEER'S REVIEW. WALL (CONTINUOUS FOOTING) CONSTRUCTION JOINTS SHALL BE PLACED SO AS TO PROVIDE A 60 FOOT MAXIMUM LENGTH OF CONCRETE PLACEMENT.
 10. NO CONCRETE TEST WILL BE ACCEPTED IF CONCRETE IS TAMPERED WITH IN ANY WAY AFTER SAID TEST IS PERFORMED. REPEAT TEST IF WATER IS ADDED AFTER INITIAL SAMPLING.
 11. VERTICAL CONSTRUCTION JOINTS IN WALLS SHALL BE USED ONLY WITH PRIOR APPROVAL OF THE ENGINEER AND SHALL BE LOCATED AT LEAST EIGHT FEET FROM ANY WALL OPENING FOR FOUNDATION WALLS.
 12. NO HORIZONTAL CONSTRUCTION JOINTS WILL BE PERMITTED IN BEAMS, WALLS AND SLABS UNLESS SPECIFICALLY SHOWN ON THE DRAWINGS OR APPROVED IN WRITING BY THE ENGINEER.
 13. THE GENERAL CONTRACTOR SHALL PROVIDE REINFORCING STEEL ERECTOR WITH A SET OF STRUCTURAL PLANS FOR FIELD USE.
 14. ALL ADJOINING SURFACES NOT CAST MONOLITHICALLY SHALL BE ROUGHENED TO 1/4 INCH AMPLITUDE FOR THE ENTIRE INTERSECTING SURFACE ACCORDING TO ACI RECOMMENDATIONS.
 15. CONTRACTOR SHALL VERIFY DIMENSIONS AND LOCATIONS OF ALL OPENINGS, PIPE SLEEVES, CURBS ETC. AS REQUIRED BY OTHER TRADES BEFORE CONCRETE IS PLACED.
 16. FOR LOCATION OF FLOOR DRAINS, CURBS, CONCRETE PADS AND FLOOR DEPRESSIONS SEE ARCHITECTURAL AND MECHANICAL DRAWINGS.
 17. COORDINATE LOCATION OF SLOTTED INSERTS, WELDED PLATES, AND OTHER ITEMS TO BE EMBEDDED IN CONCRETE WITH ARCHITECTURAL AND MECHANICAL DRAWINGS.
 18. CONTRACTOR SHALL USE RIGID TEMPLATES TO INSTALL ANCHOR BOLTS.
 19. PIPES OR CONDUITS ARE NOT PERMITTED TO BE PLACED IN SLAB.
 20. TYPICAL SLAB ON–GRADE REINFORCING SHALL BE AS FOLLOWS: TEMPERATURE REINFORCING 6 X 6 – W2.9 X W2.9 WELDED WIRE FABRIC.
- ROUGH CARPENTRY (AS APPLICABLE)
1. WOOD FRAMING SHALL CONFORM TO AND BE ERECTED IN ACCORDANCE WITH THE LATEST RECOMMENDATIONS OF THE NATIONAL DESIGN SPECIFICATIONS FOR WOOD CONSTRUCTION AND THE AMERICAN INSTITUTE OF TIMBER CONSTRUCTION.
 2. ALL WOOD FRAMING IN CONTACT WITH CONCRETE, MASONRY AND/OR SUBJECT TO EXTERIOR EXPOSURE SHALL BE ACQ PRESERVATIVE TREATED IN ACCORDANCE WITH ANPA STANDARDS C2.
 3. JOIST HANGERS, FRAMING ANGLES AND CLIPS SHALL BE EQUAL TO THOSE MANUFACTURED BY THE SIMPSON STRONG–TIE COMPANY.
 4. FRAMING MEMBERS SHALL BE SECURELY FASTENED TOGETHER AND TO SUPPORTING CONSTRUCTION; NAILED, SPIKED, LAG SCREWED OR BOLTED AS REQUIRED.
 5. ALL WOOD FRAMING EXPOSED TO WEATHER, IN CONTACT WITH THE GROUND OR IN AREAS WITH HIGH RELATIVE HUMIDITY; PROVIDE FASTENERS AND ANCHORS WITH A HOT–DIP ZINC COATING (ASTM A153)
 6. DOUBLE STUD WALL OPENINGS, DOOR AND WINDOW JAMBS. USE THREE STUDS AT CORNERS.
 7. ALL NAILED CONNECTIONS SHALL BE SECURED IN ACCORDANCE WITH STATE OF CONNECTICUT BASIC BUILDING CODE NAILING SCHEDULE.
 8. FOR BOLTED CONNECTIONS, DRILL HOLES 1/16" LARGER IN DIAMETER THAN THE BOLTS BEING USED. USE WASHERS UNDER ALL NUTS.
 9. FOR LAG–SCREWS AND WOOD SCREWS, PRE–BORE HOLES SAME DIAMETER AS ROOT OF THREADS; ENLARGE HOLES TO SHANK DIAMETER FOR LENGTH OF SHANK. SCREW, DO NOT DRIVE, ALL LAG SCREWS AND WOOD SCREWS.
 10. ROOF SHEATHING SHALL BE INSTALLED WITH LONG DIMENSION (FACE GRAIN)PERPENDICULAR TO SUPPORTING MEMBER AND ATTACHED WITH 8d COMMON NAILS AT 6"O.C. AT EDGES AND 12"O.C. AT INTERMEDIATE SUPPORT. REDUCE INTERMEDIATE NAIL SPACING TO 6"O.C. WITHIN 8'–0" OF ROOF RIDGES, EAVES, HIPS AND GABLE ENDS. PROVIDE & INSTALL 20 GA. GALV SHEATHING CLIPS AT MID SPAN OF PLYWOOD SHEATHING BET SUPPORTING MEMBERS.
 11. WALL SHEATHING SHALL ATTACHED WITH 10d COMMON NAILS AT 6" O.C. AT PERIMETER & EDGES & ENDS, AND 12" O.C. AT INTERMEDIATE SUPPORTS.

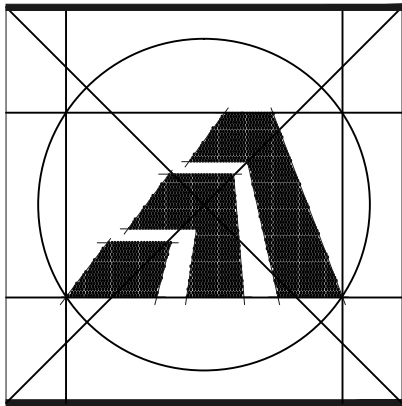
HELICAL STEEL PILES

- 1) DESCRIPTION
HELICAL PILES SHALL BE FURNISHED AND INSTALLED TO ACHIEVE AN ULTIMATE BEARING CAPACITY OF 50 KIPS COMPRESSION. THE DESIGN CAPACITY OF THE PILES IS 25 KIPS PROVIDING A FACTOR OF SAFETY OF 2.
PILES SHALL BE CAPABLE OF PROVIDING A LATERAL RESISTANCE OF 1 KIP EACH. THE PILE CONTRACTOR SHALL SUBMIT FOR REVIEW CALCULATIONS INDICATING THE MINIMUM PILE DEPTH, HELIX DIAMETER AND REQUIRED TORQUE TO ACHIEVE THE REQUIRED LOAD BASED UPON THE SOIL BORING.
- 2) QUALITY ASSURANCE
 - a. INSTALLATION CONTRACTOR'S QUALIFICATIONS: INSTALLATION SHALL BE BY A HELICAL FOUNDATION SYSTEMS AUTHORIZED INSTALLATION CONTRACTOR-PROOF OF CURRENT CERTIFICATION BY MACLEAN–DIXIE ANCHORING SYSTEMS SHALL BE SUBMITTED TO THE OWNER OR THEIR REPRESENTATIVE PRIOR TO STARTING INSTALLATION UPON REQUEST OF THE OWNER OR THEIR REPRESENTATIVE.
 - b. ALL HELICAL PILES SHALL BE INSTALLED IN THE PRESENCE OF A DESIGNATED REPRESENTATIVE OF THE OWNER UNLESS THE OWNER OR THEIR REPRESENTATIVE INFORMS THE INSTALLATION CONTRACTOR OTHERWISE.
 - c. WELDING: PROCEDURES SHALL MEET THE REQUIREMENTS OF AWS "STRUCTURAL WELDING CODE," D1.1, LATEST EDITION. ALL WELDERS SHALL BE AWS CERTIFIED.
 - d. HELICAL PILE SYSTEM SHALL BE ICC–ES LISTED. THE INSTALLATION CONTRACTOR SHALL FURNISH EVIDENCE TO THE OWNER OR THEIR REPRESENTATIVE BY MEANS OF THE ICC–ES EVALUATION REPORT NUMBER PFC–5551 IF REQUIRED.
 - e. THE COUPLING MATERIAL SHALL CONFIRM TO AISI 8620 OR SC1045 PER ASTM A–958.
- 3) ALLOWABLE TOLERANCES
 - a. THE FOLLOWING TOLERANCES ARE SUGGESTED MAXIMUMS. THE FINAL TOLERANCES FOR A GIVEN PROJECT WILL BE ESTABLISHED PRIOR TO THE COMMENCEMENT OF THE INSTALLATION OF THE HELICAL PILES AND WILL DEPEND ON THE SPECIFIC REQUIREMENTS OF THE PROJECT.
 - b. THE CENTERLINE OF THE HELICAL PILES SHALL BE WITHIN 2 INCHES OF THE LOCATION AS SHOWN ON THE PLANS.
 - c. HELICAL PILES SHALL BE WITHIN 2 DEGREES OF DESIGN ALIGNMENT.
 - d. THE TOP ELEVATION OF THE HELICAL PILE SHALL BE WITHIN +1 INCH TO –1 INCH OF PLAN ELEVATION.
- 4) CONSTRUCTION SUBMITTALS
 - a. THE CONTRACTOR SHALL SUBMIT WORKING DRAWINGS FOR THE HELICAL PILES TO THE OWNER OR THEIR REPRESENTATIVE PRIOR TO THE START OF CONSTRUCTION FOR REVIEW AND APPROVAL IF REQUIRED.
 - b. THE CONTRACTOR SHALL SUBMIT DETAILED CONSTRUCTION PROCEDURES PROPOSED FOR USE ALONG WITH A LIST OF THE MAJOR INSTALLATION EQUIPMENT TO THE OWNER OR THEIR REPRESENTATIVE IF REQUIRED.
 - c. THE WORKING DRAWINGS SHALL INCLUDE THE FOLLOWING ITEMS:
 - a. HELICAL PILE NUMBER AND LOCATION
 - b. HELICAL PILE DESIGN LOAD
 - c. TYPE AND SIZE OF SHAFT
 - d. HELICAL CONFIGURATION AND DIAMETER OF HELICAL PLATES
 - e. MINIMUM EFFECTIVE INSTALLATION TORQUE
 - f. MINIMUM OVERALL LENGTH
 - g. ANGLE OF INSTALLATION OF THE PILE, IF OTHER THAN VERTICAL
 - h. PILE HEAD ELEVATION
 - i. HELICAL PILE ATTACHMENT TO THE STRUCTURE
 - d. THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS FOR THE HELICAL PILE COMPONENTS, INCLUDING THE CORROSION PROTECTION AND PILE TOP TERMINATION DEVICE TO THE OWNER OR THEIR REPRESENTATIVE FOR REVIEW AND APPROVAL.
 - e. WORK SHALL NOT COMMENCE UNTIL ALL SUBMITTALS HAVE BEEN RECEIVED AND APPROVED BY THE OWNER OR THEIR REPRESENTATIVE. THE CONTRACTOR SHALLPROVIDE THE OWNER OR THEIR REPRESENTATIVE A REASONABLE AMOUNT OF TIME TO REVIEW, COMMENT, AND RETURN THE SUBMITTAL DOCUMENTS AFTER A COMPLETE SET HAS BEEN RECEIVED.
- 5) TERMINATION CRITERIA
 - a. THE TORQUE AS MEASURED DURING THE INSTALLATION SHALL NOT EXCEED THE TORQUE RATING (TORSIONAL STRENGTH) OF THE STEEL HELICAL LEAD AND EXTENSION SHAFT SECTIONS.
 - b. THE MINIMUM INSTALLATION TORQUE AND MINIMUM OVERALL LENGTH CRITERIA AS SHOWN ON THE WORKING DRAWINGS SHALL BE SATISFIED PRIOR TO TERMINATING THE INSTALLATION OF THE HELICAL PILE.
 - c. IF THE MINIMUM INSTALLATION TORQUE AS SHOWN ON THE WORKING DRAWINGS IS NOT ACHIEVED AT THE MINIMUM OVERALL LENGTH AND THERE IS NO MAXIMUM OVERALL LENGTH CONSTRAINT, THE INSTALLATION CONTRACTOR SHALL HAVE THE FOLLOWING OPTIONS:
 - a. REMOVE THE EXISTING HELICAL PILE AND INSTALL A NEW PILE WITH ADDITIONAL AND/OR LARGER DIAMETER HELICAL PLATES. THIS NEW PILE CONFIGURATION SHALL BE SUBJECT TO REVIEW BY AND ACCEPTANCE OF THE OWNER OR THEIR REPRESENTATIVE. IF THE NEW PILE IS INSTALLED AT THE SAME LOCATION AS THE ORIGINAL PILE, THEN THE TOP MOST HELIX OF THE NEW HELICAL PILE SHALL BE TERMINATED AT LEAST THREE TIMES THE DIAMETER OF TOP MOST HELIX OF THE NEW PILE BEYOND THE TERMINATION DEPTH OF THE ORIGINAL PILE, OR
 - b. DERATE THE LOAD CAPACITY OF THE HELICAL PILE AND INSTALL ADDITIONAL HELICAL PILE(S). THE DERATED CAPACITY AND ADDITIONAL HELICAL PILE LOCATION(S) SHALL BE SUBJECT TO THE REVIEW BY AND ACCEPTANCE OF THE OWNER OR THEIR REPRESENTATIVE.
 - c. IF THE HELICAL PILE REACHES REFUSAL OR IS DEFLECTED BY A SUBSURFACE OBSTRUCTION, THE INSTALLATION SHALL BE TERMINATED AND THE HELICAL PILE REMOVED. THE OBSTRUCTION SHALL BE REMOVED, IF FEASIBLE, AND THE HELICAL PILE SHALL BE REINSTALLED. IF THE OBSTRUCTION CANNOT BE REMOVED, THE HELICAL PILE SHALL BE INSTALLED AT AN ADJACENT LOCATION SUBJECT TO REVIEW BY AND ACCEPTANCE OF THE OWNER OR THEIR REPRESENTATIVE.
 - h. THE CONTRACTOR SHALL MAINTAIN A WRITTEN INSTALLATION RECORD FOR EACH HELICAL PILE AND SUBMIT TO THE ENGINEER OF RECORD.

ACCURATELY RECORD THE FOLLOWING:

1. TYPE [NUMBER AND SIZE OF HELICES], AND SIZE.
2. DEVIATION FROM INDICATED LOCATIONS.
3. ACTUAL LOCATIONS OF HELICAL PIERS, PIER DIAMETER, AND PIER LENGTH.
4. INSTALLATION ANGLE BELOW HORIZONTAL.
5. EXTENSION LENGTH ALONG SHAFT AND DATUM.
6. ANCHOR TESTING IF REQUIRED.
7. TORQUE–INSTALLATION RECORDS ON PIERS.
8. TORQUE MONITORING CALIBRATION DATA.

END OF SPECIFICATION



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Comm No. 01MH4.16

Sheet Title:

STRUCTURAL NOTES

APPLICATION # 5001

WERNER RESIDENCE

34 Elaine Road
Milford,Connecticut 06460

STATE OF CONNECTICUT
DEPARTMENT OF HOUSING
COMMUNITY DEVELOPMENT BLOCK GRANT
DISASTER RECOVERY PROGRAM
(CDBG-DR)

Date:

1/31/15

Job Number:

Drawn By:

JRO

Approved By:

EGS

Sheet Number:

S-1

SOILTESTING, INC. 90 DONOVAN RD. OXFORD, CT 06478 CT (203) 262-9328 NY (914) 946-4850				CLIENT: FLP General Construction & House Lifting				SHEET 1 OF 1 HOLE NO. B-1			
PROJECT NO. G102-9416-13				PROJECT NAME 34 Elaine Drive and Milford, CT				BORING LOCATIONS Per Sketch			
FOREMAN - DRILLER TP/pjb				LOCATION							
INSPECTOR				TYPE				CASING HSA SAMPLER SS CORE BAR SS OFFSET			
GROUND WATER OBSERVATIONS				SIZE I.D. 4 1/4"				DATE START 5/20/13			
AT 3 FT AFTER 0 HOURS				HAMMER WT. 140#				DATE FINISH 5/20/13			
AT 1 FT AFTER 0 HOURS				HAMMER FALL 30"				SURFACE ELEV. GROUND WATER ELEV.			
DEPTH	SAMPLE				BLOWS PER 6 IN ON SAMPLER (FORCE ON TUBE) 0-6 6-12 12-18	CORE TIME PER FT (MIN)	DENSITY OR CONSIST	STRATA CHANGE DEPTH	FIELD IDENTIFICATION OF SOIL REMARKS INCL. COLOR, LOSS OF WASH WATER, SEAMS IN ROCK, ETC.		
	CASING BLOWS PER FOOT	NO	Type	PEN REC. DEPTH @ BOT							
5	1	ss	24"	8"	20"	3	1		dry	brn RMC SAND, sm F gravel	
	2	ss	24"	14"	40"	1	6		v loose	brn SILT, VF-F sand, lt F gravel	
	3	ss	24"	4"	60"	8	5		moist	brn MF SAND, sm C sand, silt, lt F gravel (Fill)	
	3	ss	24"	4"	60"	3	3		compact		
	4	ss	24"	22"	80"	1 1/2"	1		moist	brn organic PEAT & SILT	
	5	ss	24"	18"	100"	1	2		v loose	brn organic SILT & PEAT, tr F gravel, M sand	
10	6	ss	24"	15"	120"	4	5		moist		
	6	ss	24"	15"	120"	4	8		loose		
15	7	ss	24"	18"	170"	WOH	12		wet		
						3	4		compact		
20	8	ss	24"	20"	220"	WOH	4		wet		
						5	8		loose		
25	9	ss	24"	20"	270"	4	7		wet		
						9	13		compact		
30	10	ss	24"	19"	320"	7	8		wet		
						11	13		compact		
35	11	ss	24"	18"	370"	9	10		wet		
						9	11		compact		
40										E.O.B. 370"	
NOTE: Subsoil conditions revealed by this investigation represent conditions at specific locations and may not represent conditions at other locations or times.											
GROUND SURFACE TO _____ FT. USED _____ CASING THEN _____ CASING TO _____ FT. HOLE NO. B-1											
A = AUGER UP = UNDISTURBED PISTON T = THINWALL V = VANE TEST											
WOR = WEIGHT OF RODS WOH = WEIGHT OF HAMMER & RODS C = COARSE											
SS = SPLIT TUBE SAMPLER H.S.A. = HOLLOW STEM AUGER M = MEDIUM											
PROPORTIONS USED: TRACE = 0 - 10% LITTLE = 10 - 20% SOME = 20 - 35% AND = 35 - 50% F = FINE											

BAR SIZE	COMPRESSION LAP SPlice LENGTH	TENSION (fc=4,000psi)			
		LAP SPlice LENGTH			
		TOP BARS		OTHER BARS	
		CATEGORY SEE NOTE 1 BELOW	CATEGORY SEE NOTE 1 BELOW	CATEGORY SEE NOTE 1 BELOW	CATEGORY SEE NOTE 1 BELOW
		I	II	I	II
#3	12"	24"	36"	19"	28"
#4	15"	36"	48"	25"	37"
#5	19"	48"	60"	31"	46"
#6	23"	48"	72"	37"	55"
#7	27"	70"	105"	54"	81"
#8	30"	80"	120"	62"	92"
#9	34"	90"	136"	70"	104"
#10	39"	102"	153"	78"	117"
#11	43"	113"	170"	87"	130"
NOT USED ON DWG.	• LCS	• LTS			

NOTES FOR SCHEDULES OF SPlice LENGTH:

- THE SCHEDULES BELOW INCLUDES SPlice LENGTHS WHICH SATISFY THE PROJECT REQUIREMENTS AND THE FOLLOWING CRITERIA.

fy=60,000psi
CONCRETE WEIGHT = 150lb/cu.ft.

TENSION SPlice LENGTHS ARE DIVIDED INTO TWO CATEGORIES WHICH SHALL BE APPLIED AS FOLLOWS:

CATEGORY I: CLEAR SPACING OF BARS BEING DEVELOPED OR SPliced NOT LESS THAN db, CLEAR COVER NOT LESS THAN db, AND BEAM STIRRUPS OF COLUMN TIES THROUGHOUT Ld NOT LESS THAN THE CODE MINIMUM OR CLEAR SPACING OF BARS BEING DEVELOPED OR SPliced NOT LESS THAN 2db & CLEAR COVER NOT LESS THAN db.

CATEGORY II: BARS NOT COVERED BY CATEGORY I.

2. USE COMPRESSION LAP SPlice LENGTH (LCS) AT ALL COLUMN SPlice LOCATIONS NOT SPECIFICALLY DETAILED AND UNLESS INDICATED OTHERWISE ON PLANS OR DETAIL. USE TENSION SPlice FOR ALL OTHER SPlices (UNLESS OTHERWISE SHOWN ON DRAWINGS).

3. THE STANDARD LAP SPlice (0.0005 x fy x d) IS USED FOR COMPRESSION IN SPlices AND CLASS "B" SPlice IS USED FOR TENSION SPlices. THE CONTRACTOR MAY SUBMIT LESSER SPlice LENGTHS FOR REVIEW AND APPROVAL AT THE SAME TIME PROVIDING THE FOLLOWING INFORMATION:

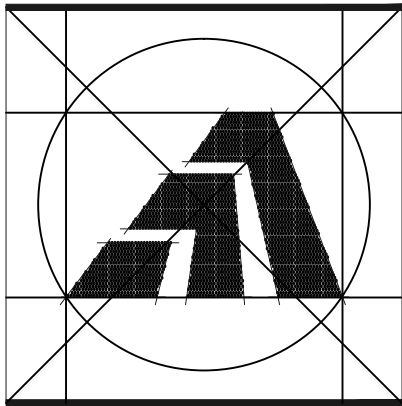
A. DETAILS PREPARE AND SUBMITTED BY THE CONTRACTOR INDICATING LOCATION AND PROPOSED LAYOUT OF REBARS AND LENGTHS OF SPlices.

B. WHERE THE SIZE AND NUMBER OF TIES OR SPIRALS PERMITS THE REDUCTION OF LAP LENGTH, THOSE BARS SHALL BE INDICATED ON THE DETAILS.

C. WHERE COMPUTED STRESS VALUES PERMIT THE REDUCTION OF LAP LENGTH, COMPUTATIONS SHALL BE SUBMITTED FOR REVIEW.

D. THE APPLICABLE SECTION OF THE ACI-95 CODE PERMITTING THE LESSER SPlice LENGTH SHALL BE INDICATED IN THE SUBMITTED MATERIAL.

4. TOP BARS ARE HORIZONTAL BARS PLACED SO THAT MORE THAN 12 INCHES OF CONCRETE IS CAST IN THE MEMBER BELOW THE BAR.



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Comm No. 01MH4.16

Sheet Title:
STRUCTURAL DETAILS

APPLICATION # 5001

WERNER RESIDENCE
34 Elaine Road
Milford, Connecticut 06460

STATE OF CONNECTICUT
DEPARTMENT OF HOUSING
COMMUNITY DEVELOPMENT BLOCK GRANT
DISASTER RECOVERY PROGRAM
(CDBG-DR)

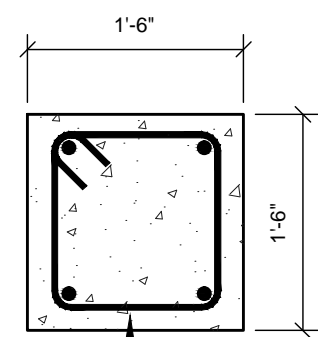
Date: 1/3/15

Job Number:
Drawn By: JRO
Approved By: EGS

Sheet Number:

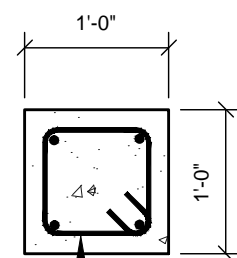
S-2

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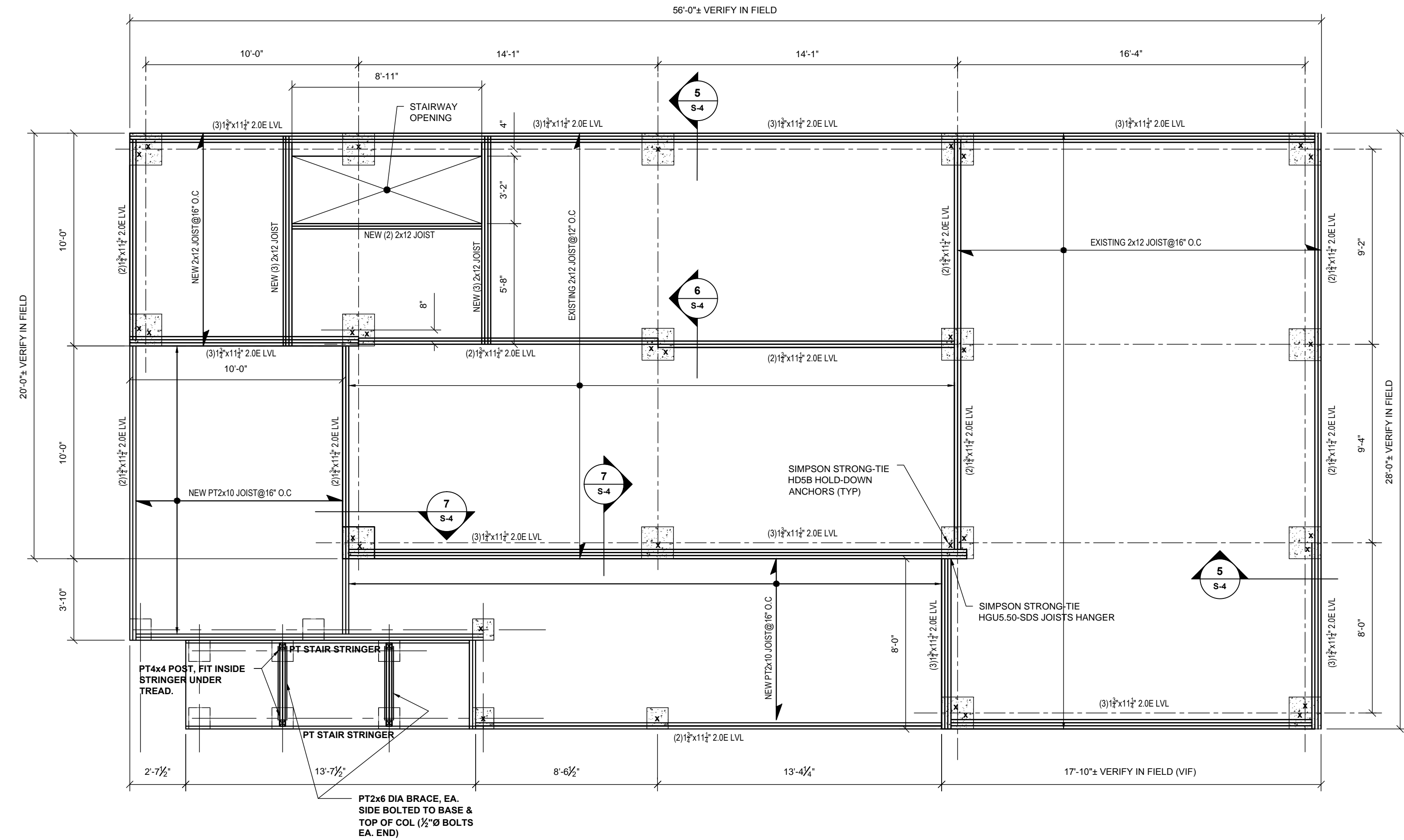
4 - #6 VERT W/#3 TIES @
12" O.C. (ALL SPLICES
TO BE LAP TENSION
SPLICES, SEE NOTES)

DETAIL - PIER 1 (P-1)
NTS

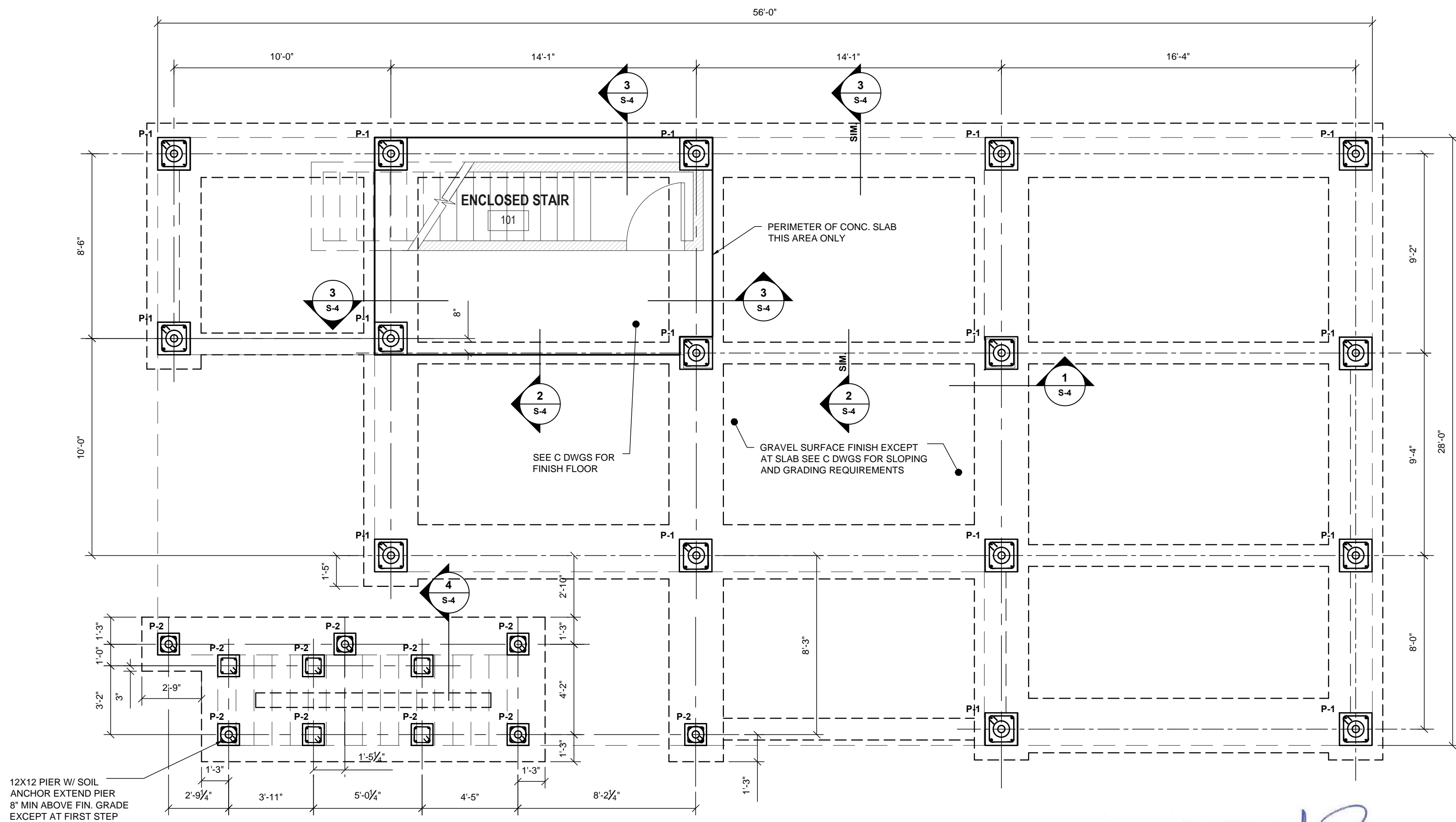


4 - #5 VERT W/#3 TIES @
12" O.C. (ALL SPLICES
TO BE LAP TENSION
SPLICES, SEE NOTES)

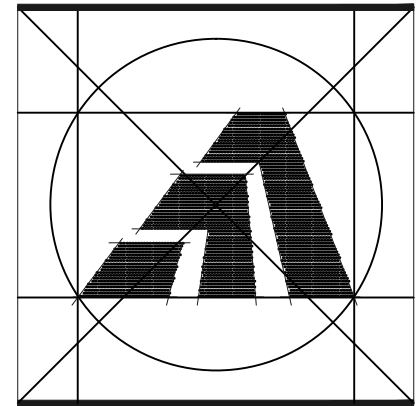
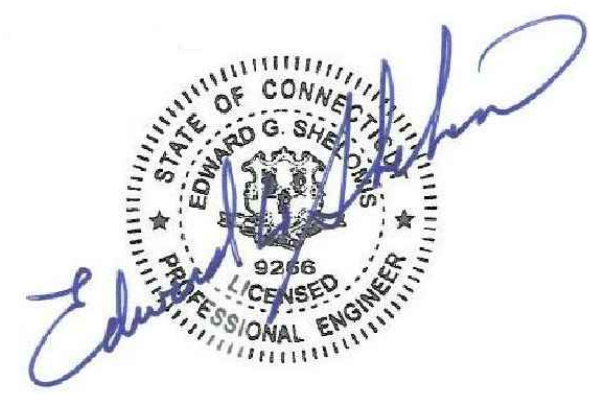
DETAIL - PIER 2 (P-2)
NTS



2 SECOND FLOOR FRAMING PLAN
1/4"=1'-0"



1 FOUNDATION PLAN
1/4"=1'-0"



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Sheet Title:
STRUCTURAL PLANS

APPLICATION # 5001

WERNER RESIDENCE
34 Elaine Road
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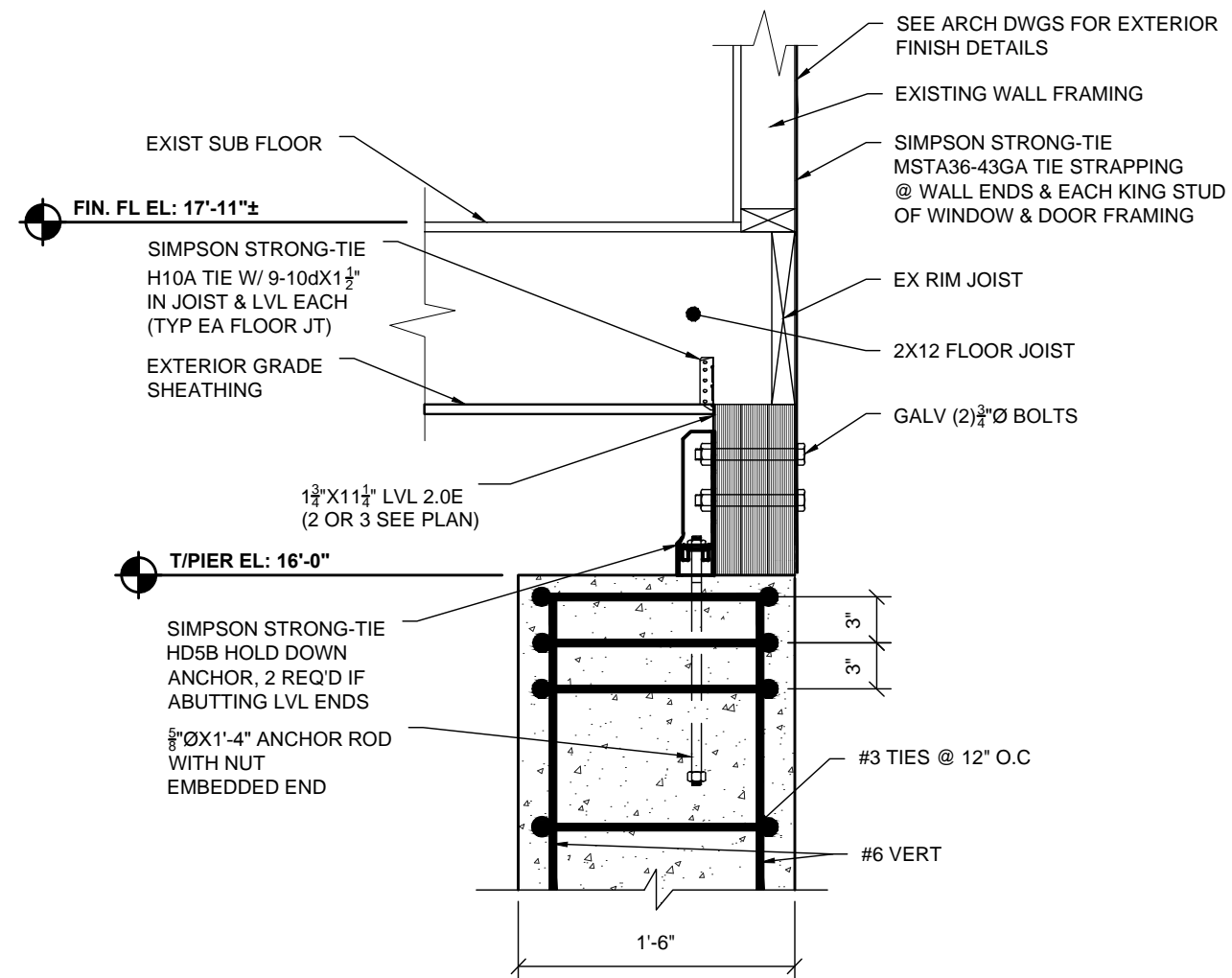
STATE OF CONNECTICUT
DEPARTMENT OF HOUSING
COMMUNITY DEVELOPMENT BLOCK GRANT
DISASTER RECOVERY PROGRAM
(CDBG-DR)

Date:
1/31/15

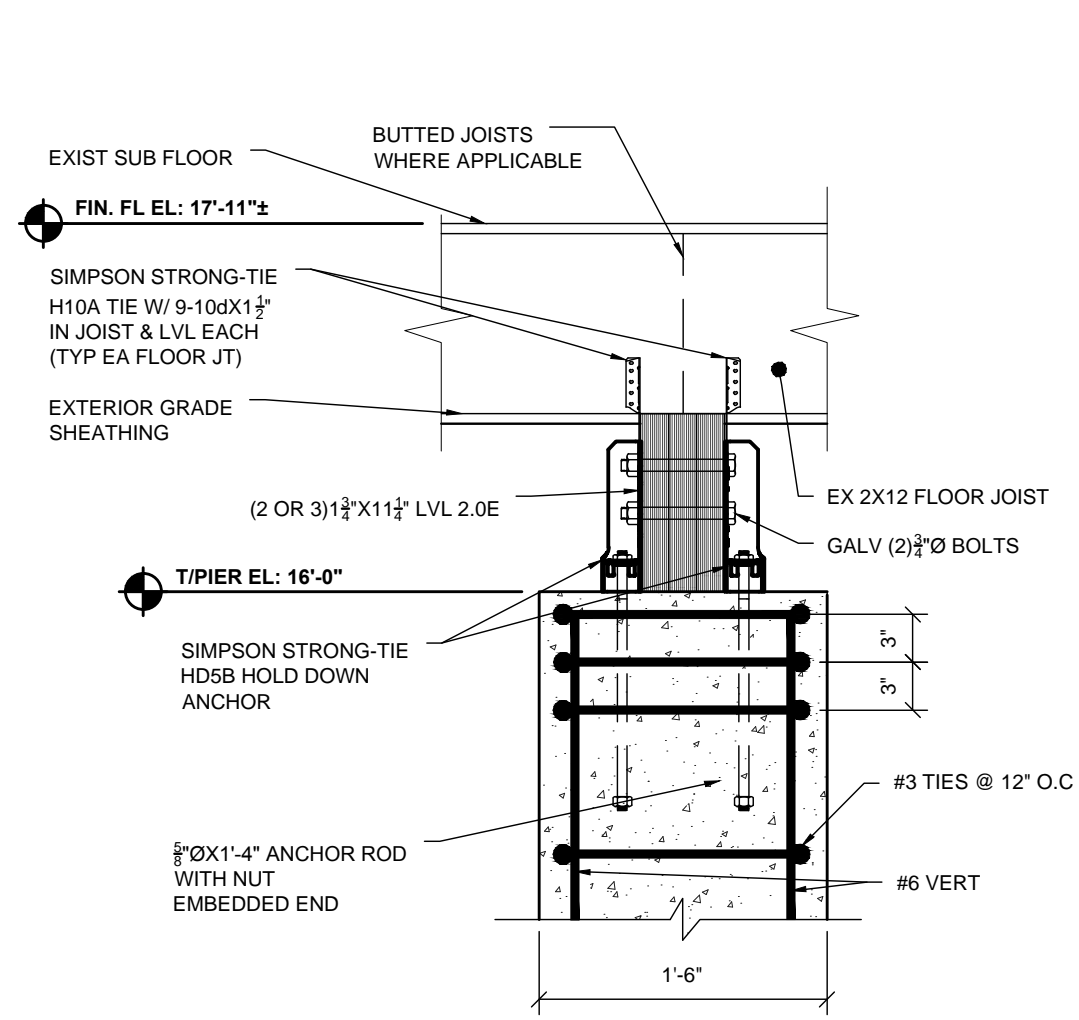
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Drawn By: JRO
Approved By: EGS

Sheet Number:

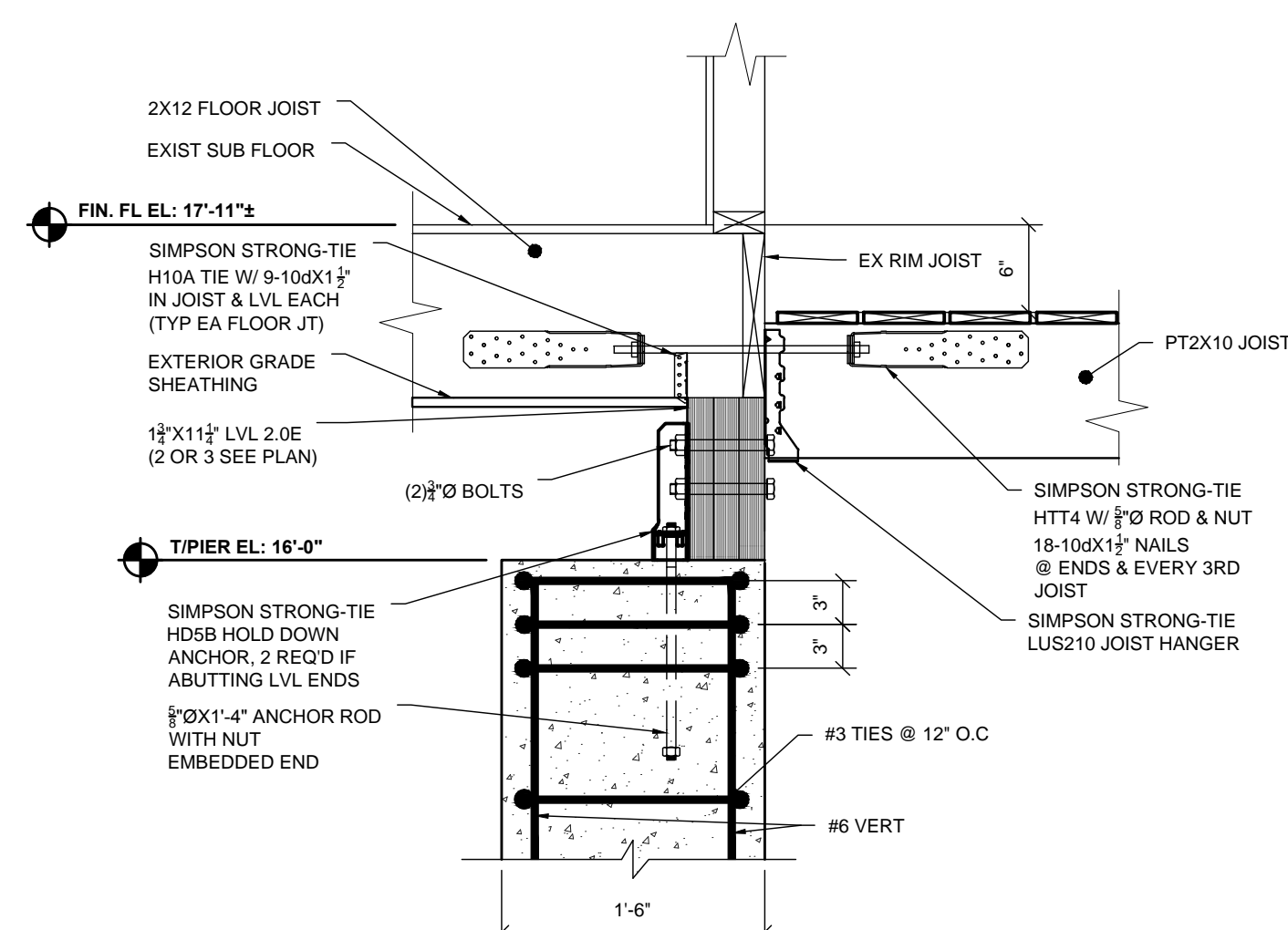
S-3



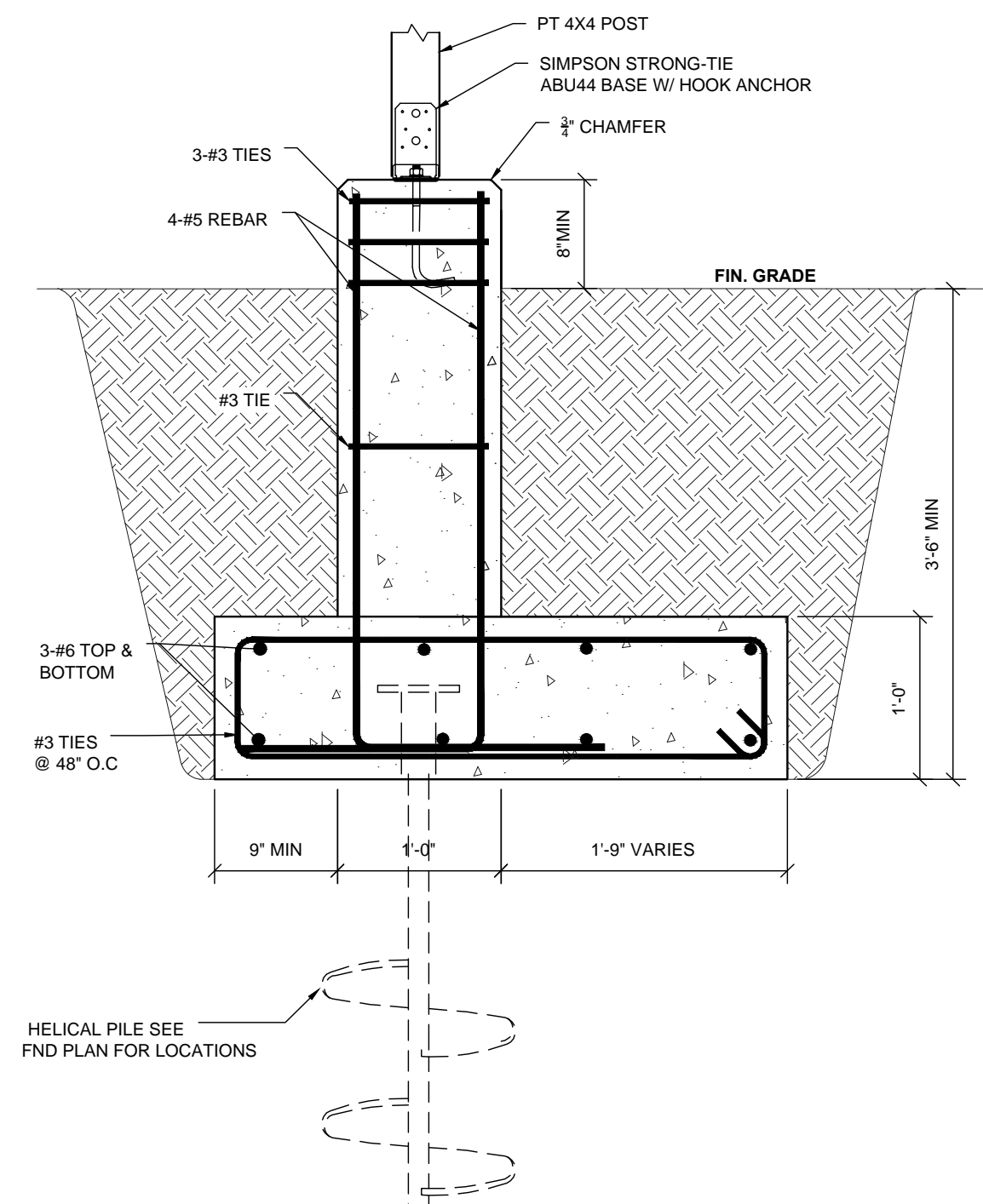
5 PERIMETER FOUNDATION SECTION @ P-2 PIER
1"=1'-0"



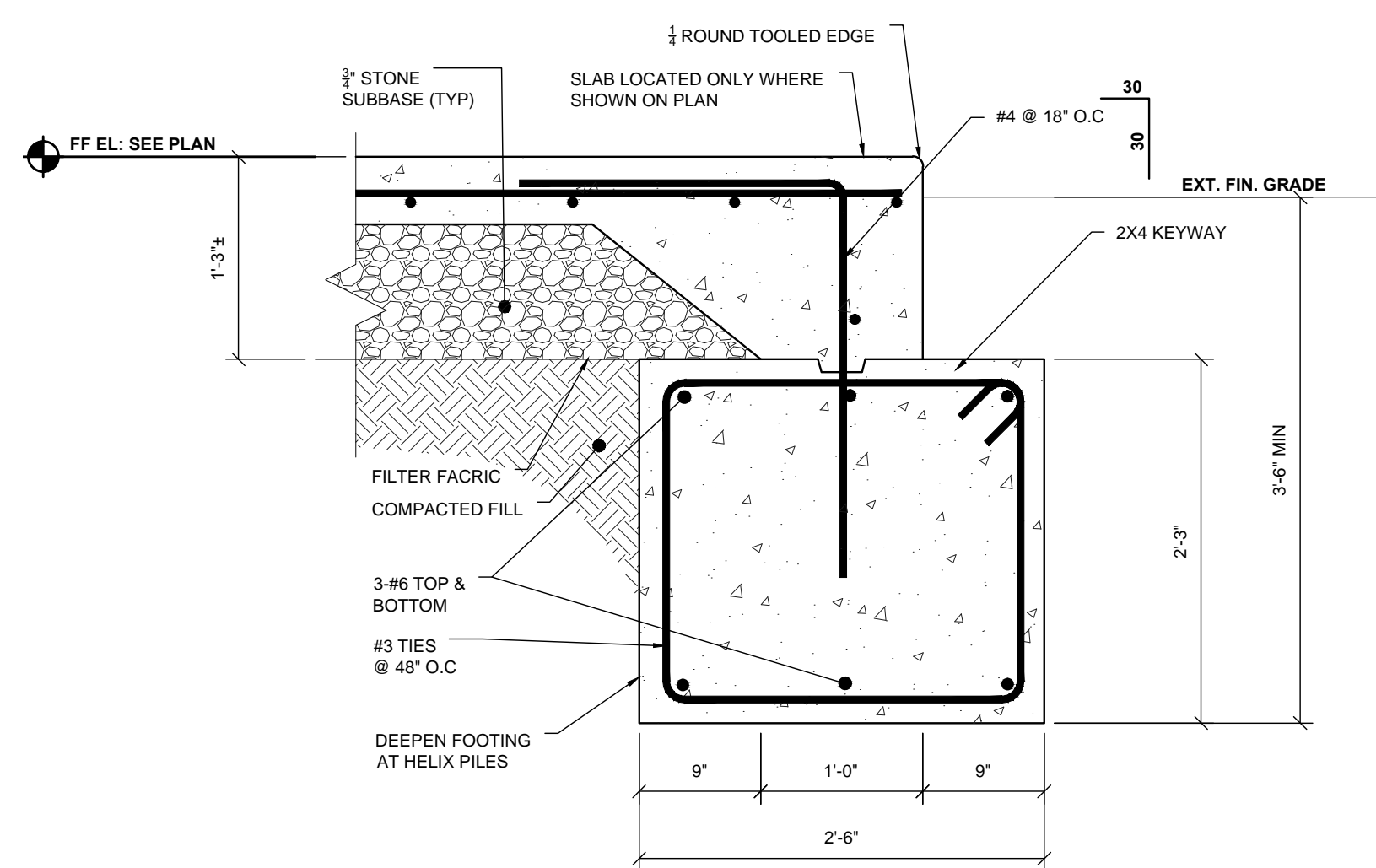
6 FOUNDATION SECTION @ P-2 PIER
1"=1'-0"



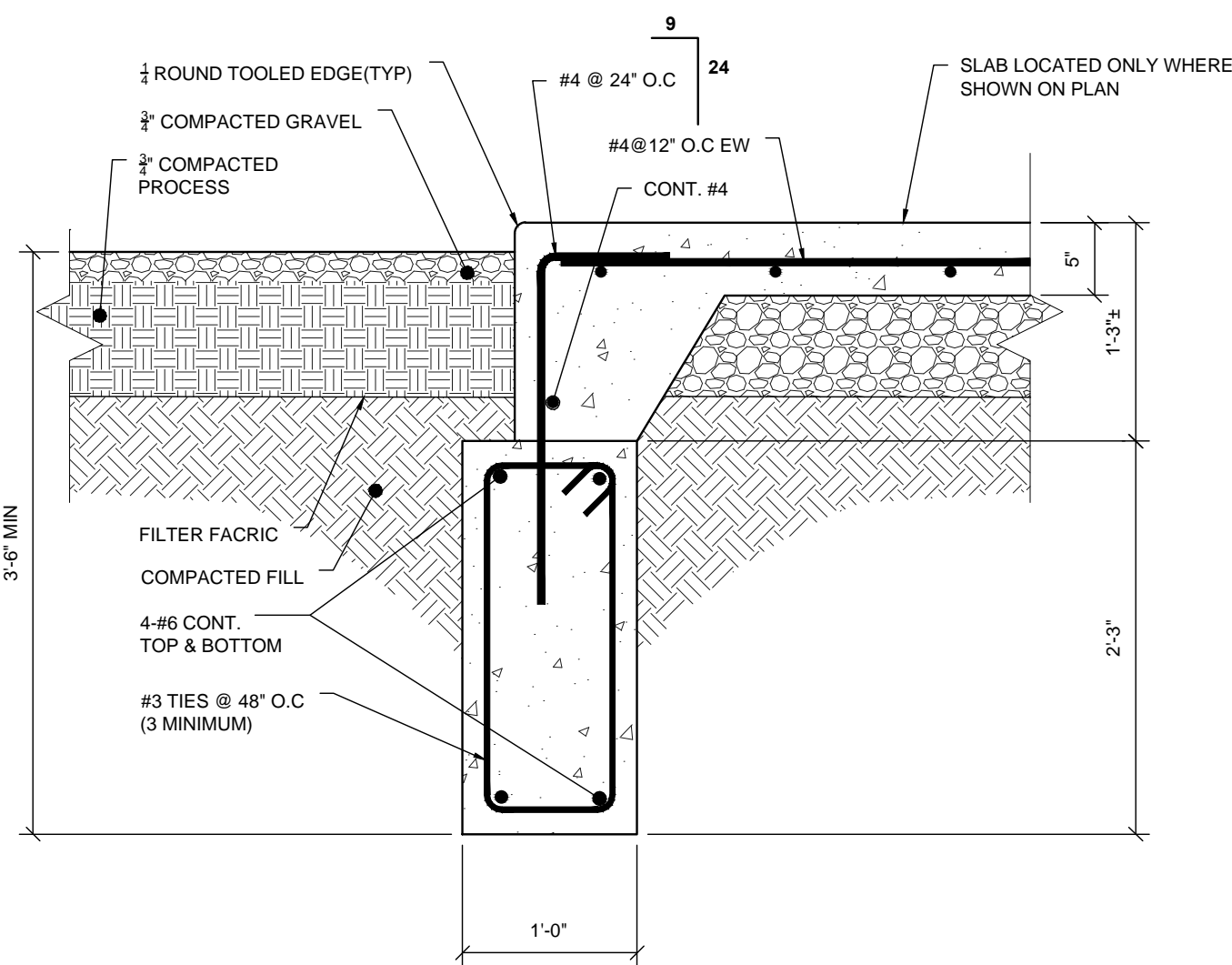
7 FOUNDATION SECTION @ P-2 PIER & DECK
1"=1'-0"



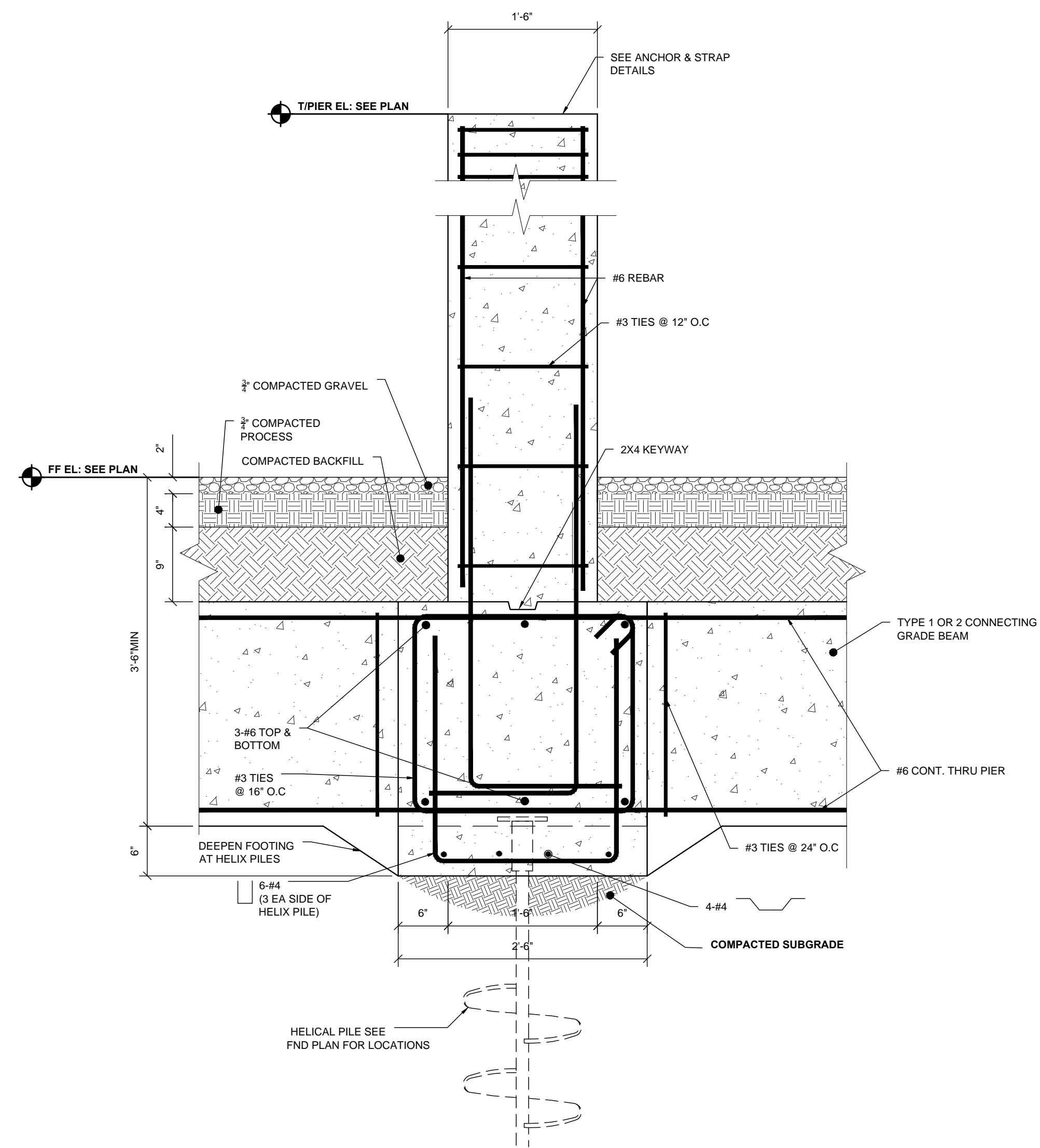
4 DECK FOUNDATION - SECTION
1"=1'-0"



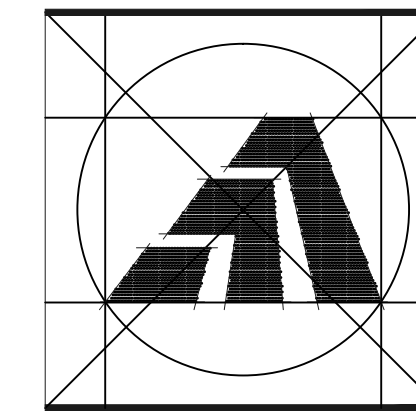
3 FOUNDATION SECTION CONNECTING GRADE BEAM (TYPE 2)
1"=1'-0"



2 FOUNDATION SECTION CONNECTING GRADE BEAM (TYPE 1)
1"=1'-0"



1 FOUNDATION SECTION @ P-2 PIER
1"=1'-0"



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SMEP Consultant:



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An Employee Owned Company
email: info@loureiro.com
Comm No. 01MH4.16

Sheet Title:
STRUCTURAL DETAILS

APPLICATION # 5001

WERNER RESIDENCE
34 Elaine Road
Milford, Connecticut 06460

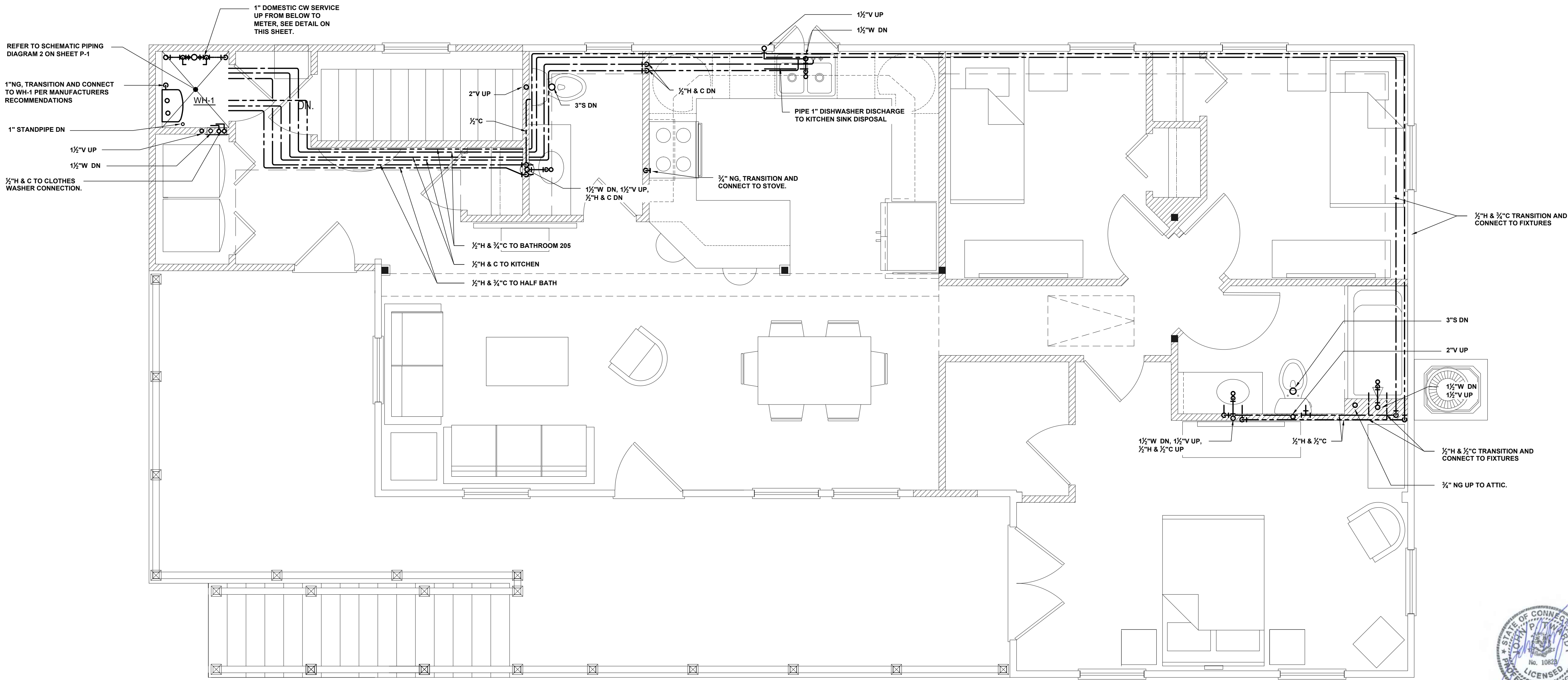
STATE OF CONNECTICUT
DEPARTMENT OF HOUSING
COMMUNITY DEVELOPMENT BLOCK GRANT
DISASTER RECOVERY PROGRAM
(CDBG-DR)

Date:
1/3/15

Job Number:
Drawn By: JRO
Approved By: EGS

Sheet Number:

S-4



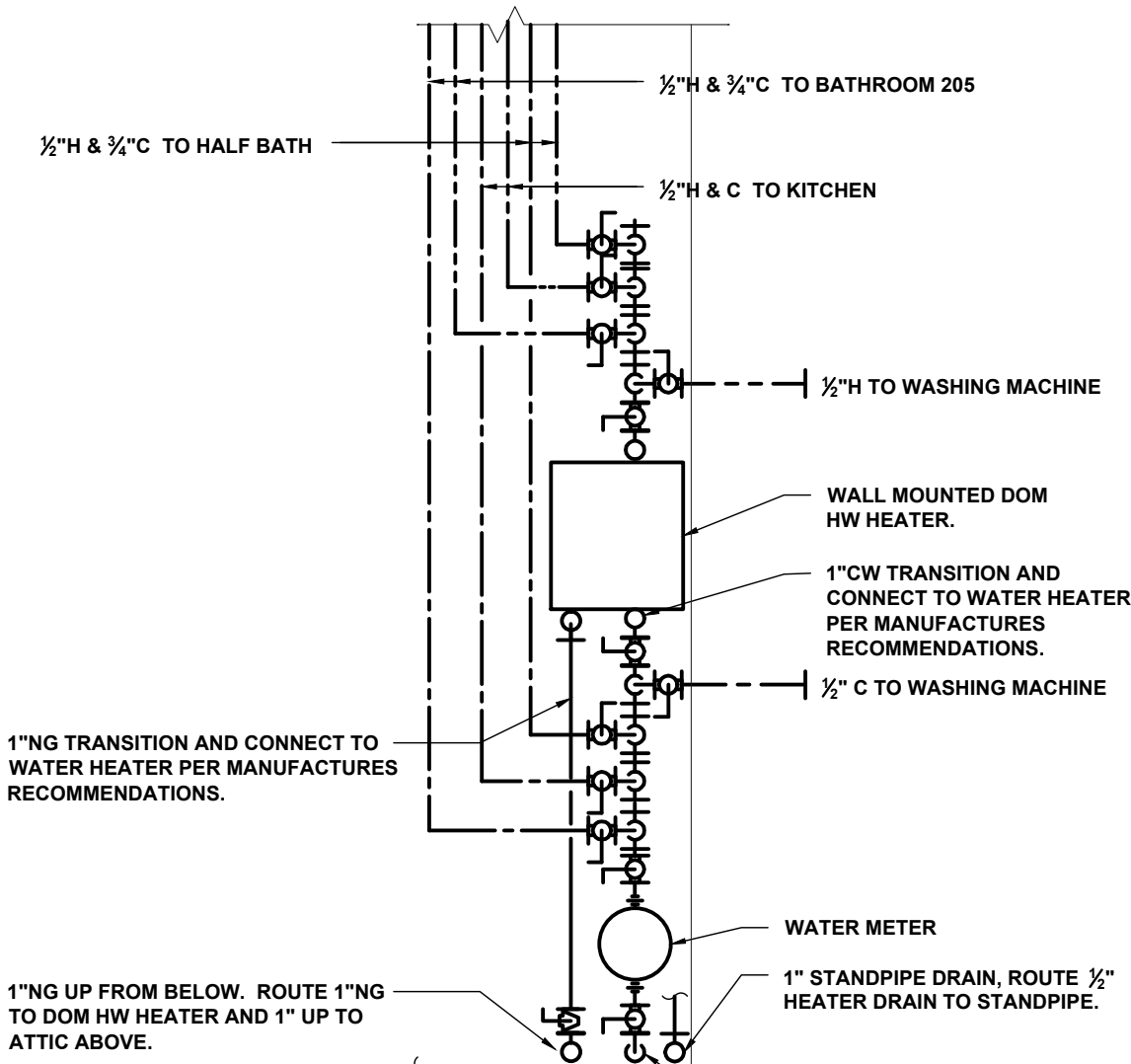
1 SECOND FLOOR PLAN
3/8"=1'-0"

NOTES:

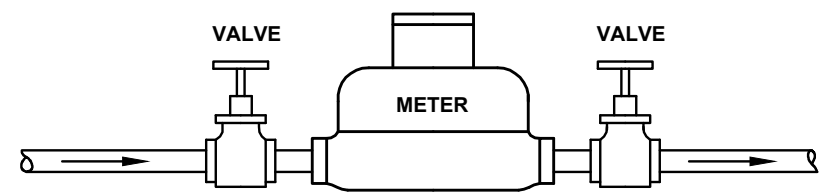
1. INFORMATION SHOWN IS BASED UPON CASUAL FIELD OBSERVATIONS. CONTRACTOR TO FIELD VERIFY EXISTING CONDITIONS PRIOR TO THE START OF WORK.
2. PIPE ROUTING SHOWN IS SCHEMATIC IN NATURE, ACTUAL ROUTING SHALL BE COORDINATED WITH EXISTING UTILITIES AND OTHER TRADES PRIOR TO THE START OF WORK.
3. DOMESTIC COLD WATER, SANITARY AND NATURAL GAS SERVICES TO BE ELEVATED ABOVE FLOOD LEVEL AND INSTALLED PER UTILITY REQUIREMENTS. A BACKFLOW VALVE SHALL BE INSTALLED IN THE SANITARY MAIN.
4. REMOVE ALL H, C, GAS & DRAIN PIPING SERVING BLDG AND RE-PIPE AS SHOWN.
5. INSTALL ALL EQUIPMENT PER MANU. RECOMMENDATIONS.
6. ALL WATER PIPING AT FIRST FLOOR TO BE HEAT TRACED, REFER TO ELEC. DWGS.

PLUMBING SYMBOL LEGEND					
SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
	WASTE, SOIL AND STORM		BUTTERFLY VALVE		UNION
	BURIED PIPE		CHECK VALVE		CIRCULATING PUMP
	COLD		PRESSURE REDUCING VALVE		FLOOR DRAIN
	HOT		BACKFLOW PREVENTER		ROOF DRAIN
	RECIRCULATION		PLUG VALVE		CLEAN OUT
	VENT		CONTROL VALVE		THERMOMETER
	BALL VALVE		HOSE BIBB		PIPE ELBOW UP
	GATE VALVE		PRESSURE RELIEF VALVE		PIPE ELBOW DN
	OS&Y GATE VALVE		STRAINER		CAP

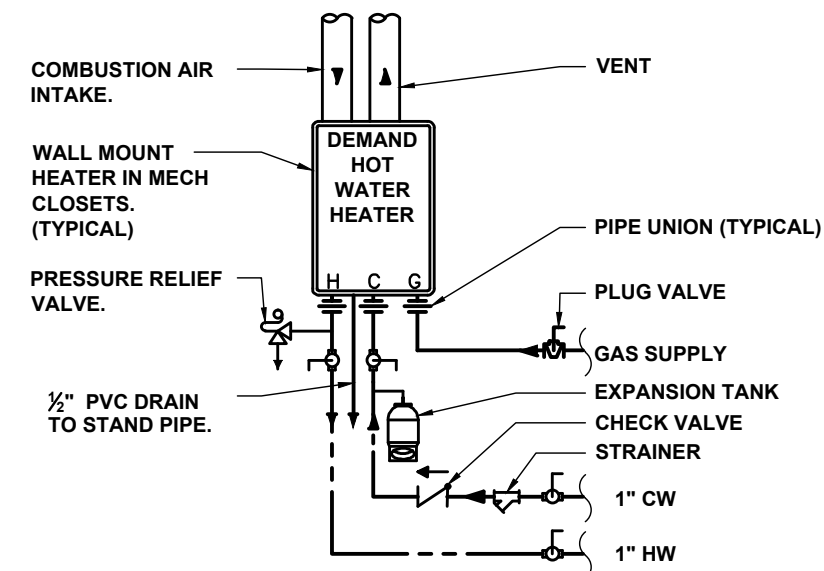
NOTE: ABOVE LEGEND IS GENERAL IN NATURE. NOT ALL SYMBOLS ARE ASSOCIATED WITH THIS PROJECT.



2 SCHEMATIC PIPING DIAGRAM AT WATER HEATER CLOSET
NTS

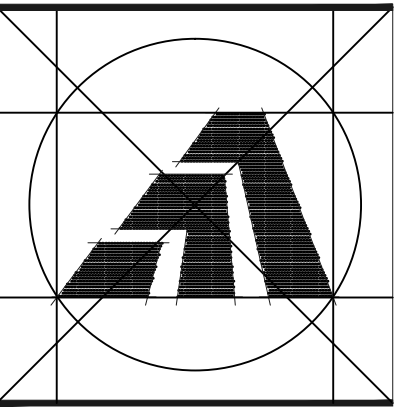
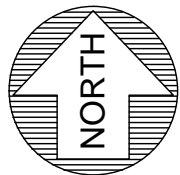


3 TYPICAL WATER METER PIPING DETAIL
NTS



NOTE: INSTALL WATER HEATER PER MANUFACTURERS RECOMMENDATIONS.

4 WATER HEATER PIPING SCHEMATIC DIAGRAM



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Comm No. 01MH4.16

Sheet Title:

PLUMBING PLANS

APPLICATION # 5001

WERNER RESIDENCE

34 Elaine Road
Milford, Connecticut 06460

STATE OF CONNECTICUT
DEPARTMENT OF HOUSING
COMMUNITY DEVELOPMENT BLOCK GRANT
DISASTER RECOVERY PROGRAM
(CDBG-DR)

Date:

1/3/15

Job Number:

Drawn By:

JTF

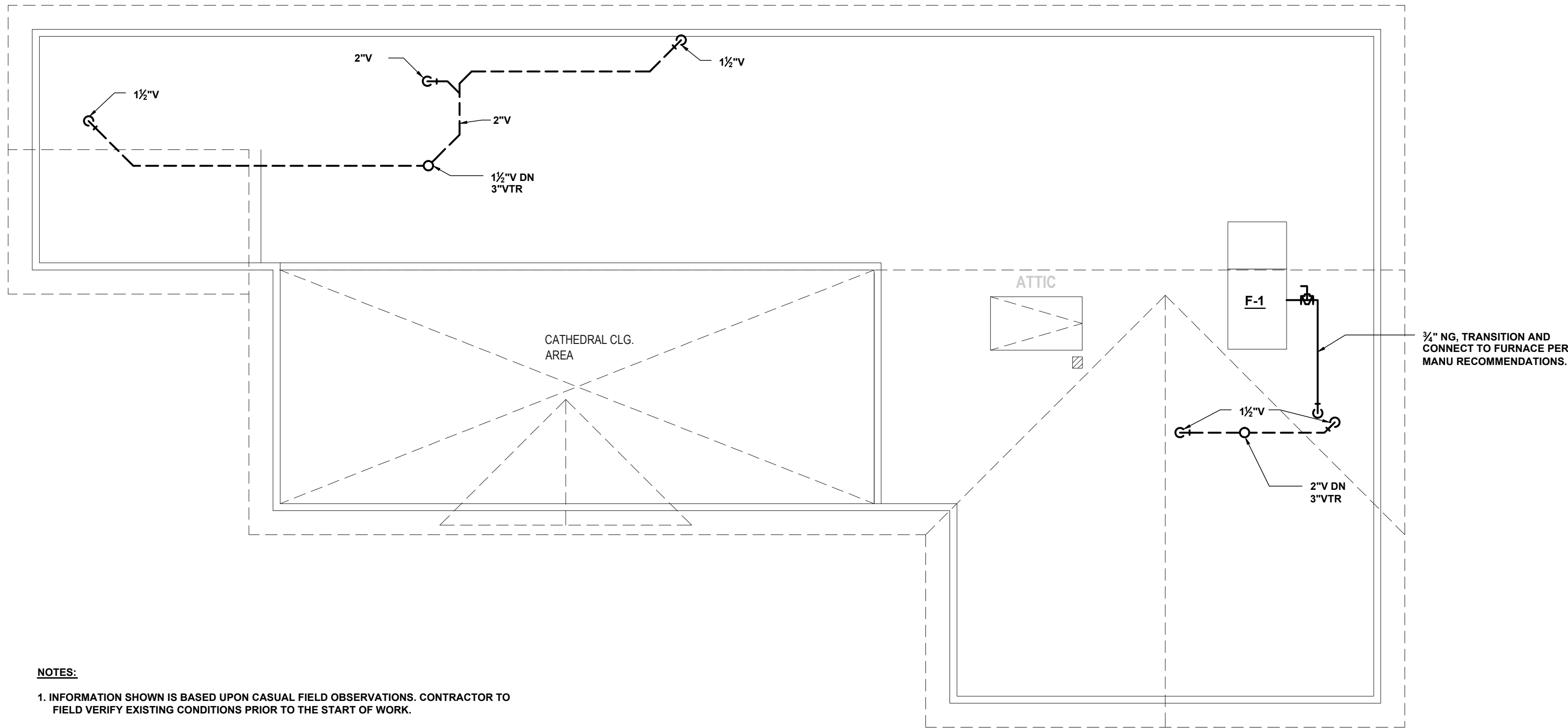
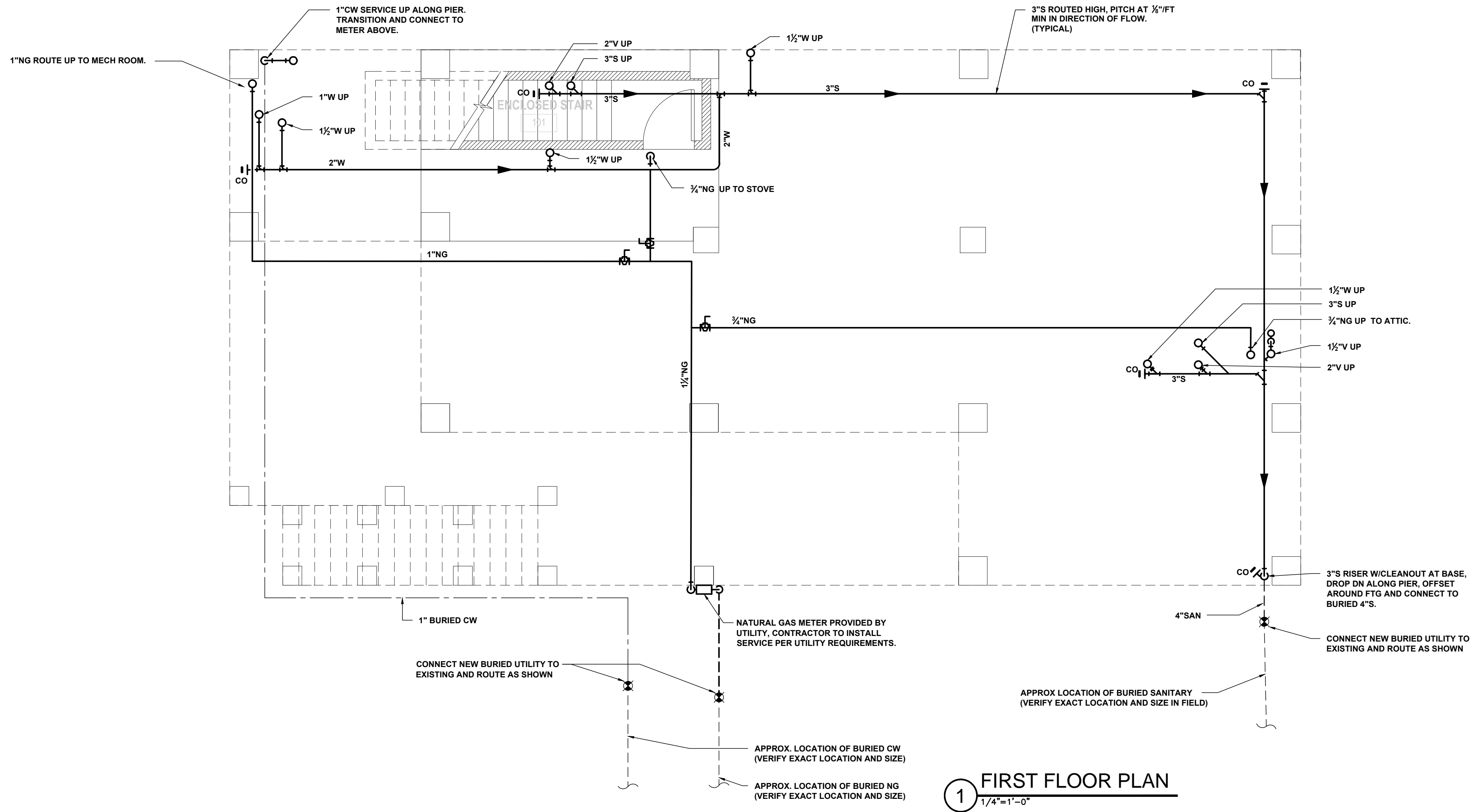
Approved By:

RJS

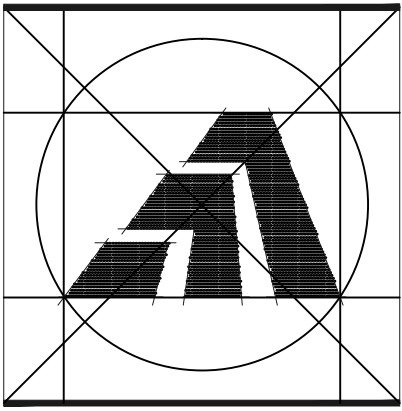
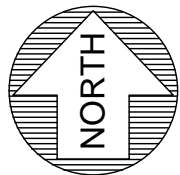
Sheet Number:

P-1

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- NOTES:**
1. INFORMATION SHOWN IS BASED UPON CASUAL FIELD OBSERVATIONS. CONTRACTOR TO FIELD VERIFY EXISTING CONDITIONS PRIOR TO THE START OF WORK.
 2. PIPE ROUTING SHOWN IS SCHEMATIC IN NATURE. ACTUAL ROUTING SHALL BE COORDINATED WITH EXISTING UTILITIES AND OTHER TRADES PRIOR TO THE START OF WORK.
 3. DOMESTIC COLD WATER, SANITARY AND NATURAL GAS SERVICES TO BE ELEVATED ABOVE FLOOD LEVEL AND INSTALLED PER UTILITY AND LOCAL TOWN REQUIREMENTS. INCLUDING INSTALLATION OF A BACK FLOW VALVE IN THE SANITARY SEWER.
 4. CONTACTOR SHALL DEMOLISH EXISTING BUILDING UTILITIES BACK TO SUIT INSTALLATION OF NEW UTILITIES SHOWN.
 5. PIPE 1/2" H&C VALVED BRANCHES TO EACH FIXTURE.



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Sheet Title:
PLUMBING PLANS

APPLICATION # 5001

WERNER RESIDENCE
34 Elaine Road
Milford, Connecticut 06460

STATE OF CONNECTICUT
DEPARTMENT OF HOUSING
COMMUNITY DEVELOPMENT BLOCK GRANT
DISASTER RECOVERY PROGRAM
(CDBG-DR)

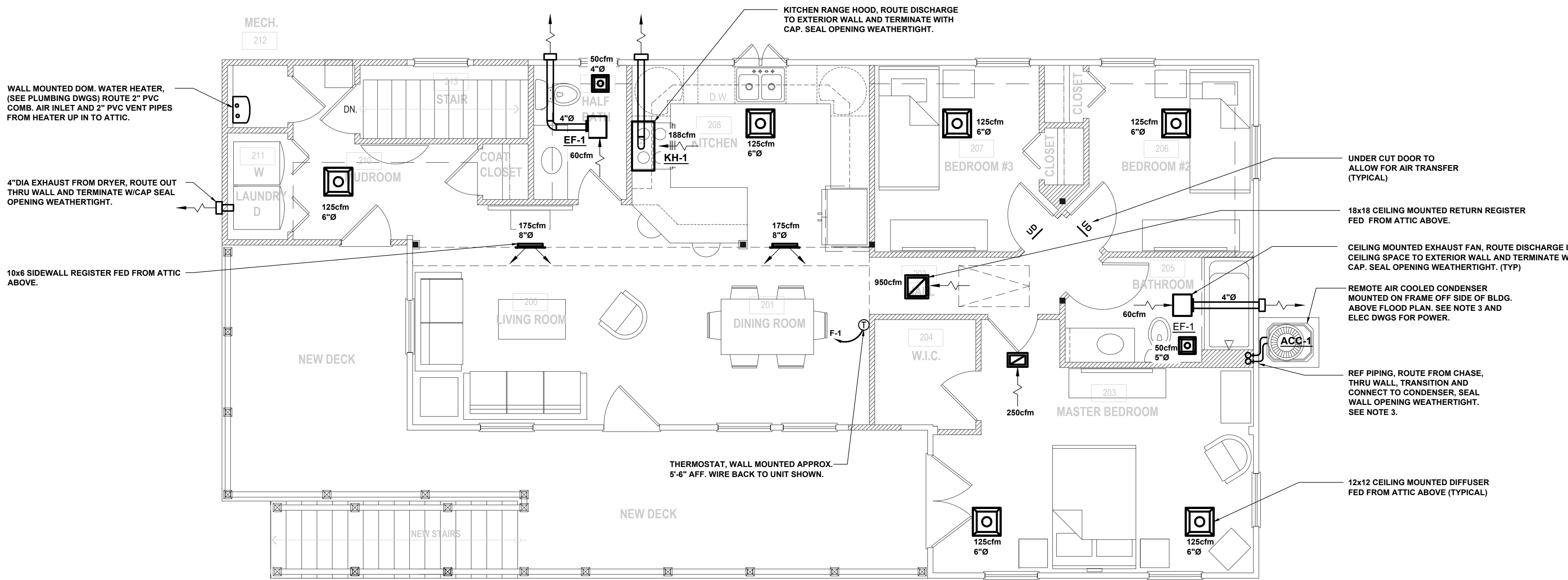
Date: 1/3/15

Job Number:
Drawn By: JTF
Approved By: RJS

Sheet Number:

P-2

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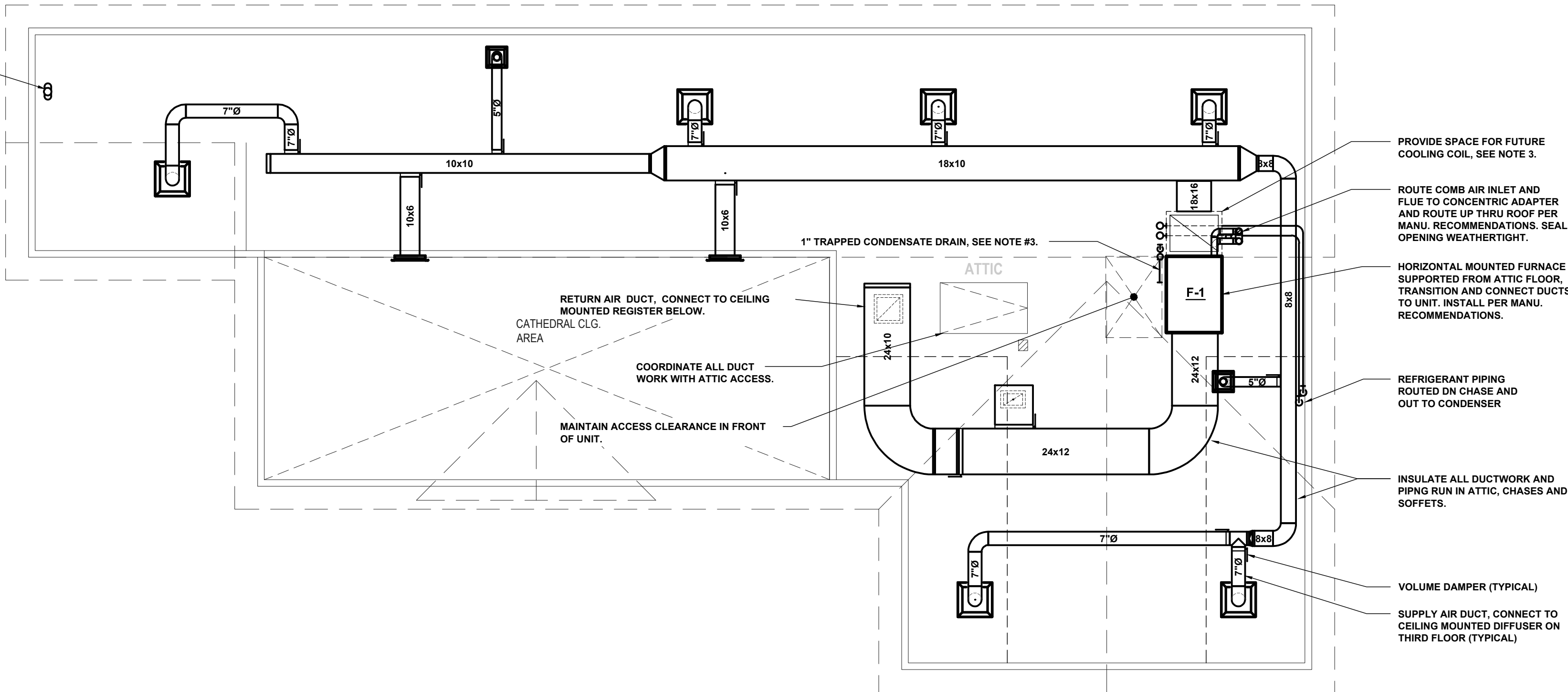
1 SECOND FLOOR PLAN
1/4"=1'-0"

EXHAUST FAN SCHEDULE											
NUMBER	AIR FLOW (CFM)	STATIC PRESSURE	MOTOR SPEED	FAN SPEED	HP	ELEC	AREA SERVING	TYPE	SONES	MANU/MODEL	REMARKS
EF-1	60	0.25"W.G.	-	1166RPM	25W	120V/1PH	BATHROOMS	CEILING	0.3	PANASONIC MODEL FV-08VQL4	SEE NOTES 1, 2, & 3
KH-1	188	0.25"W.G.	-	1653RPM	73W	120V/1PH	KITCHEN	HOOD	3.5	AIR KING MODEL E5DQ	SEE NOTES 1, 2, & 3

NOTES:
1) MANU/MODEL LISTED ARE ONLY USED AS THE BASIS FOR DESIGN. REFER TO SPECIFICATIONS FOR LIST OF ACCEPTABLE MANU/MODELS.
2) PROVIDE ALL FANS WITH DISCONNECT SWITCHES, AND BACKDRAFT DAMPERS.
3) ALL FANS TO BE ENERGY STAR RATED.

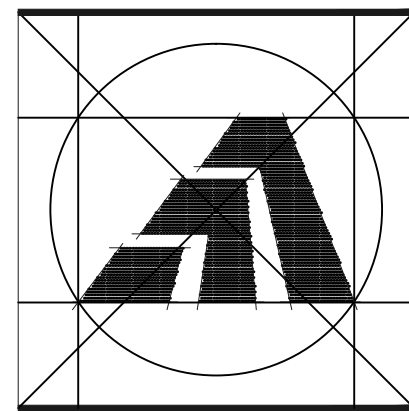
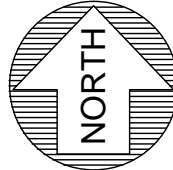
MECHANICAL SYMBOL LEGEND					
SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
S/A	SUPPLY AIR	→	SUPPLY AIR OR OUTSIDE AIR FLOW	UD	UNDERCUT DOOR
R/A	RETURN AIR	←	RETURN AIR OR EXHAUST AIR FLOW	CUH	CABINET UNIT HEATER
O/A	OUTSIDE AIR	⌋	VOLUME DAMPER (VD)	ESP	EXTERNAL STATIC PRESSURE
EXH	EXHAUST AIR	⊠	REGISTER OR GRILLE	↗	PIPE ELBOW TURNED UP
EF	EXHAUST FAN	⊠	DIFFUSER	↘	PIPE ELBOW TURNED DOWN
AFF	ABOVE FINISHED FLOOR	▤	R/A RECTANGULAR DUCT RISER	⊥	PIPE TEE UP
BOD	BOTTOM OF DUCT ELEVATION	▥	S/A RECTANGULAR DUCT RISER	⊥	PIPE TEE DN
HX	HEAT EXCHANGER	▤	EXH RECTANGULAR DUCT RISER	⌋	PIPE CAP
FD	FIRE DAMPER	⊠	R/A ROUND DUCT RISER	⌋	GATE VALVE
CFM	CUBIC FEET PER MINUTE	⊠	S/A ROUND DUCT RISER	⌋	BALL VALVE
C	COLD WATER (DOMESTIC)	⊠	EXH ROUND DUCT RISER	⌋	PRESSURE GAUGE W/SHUTOFF COCK
ACC	AIR-COOLED CONDENSER	⊠	THERMOSTAT	⌋	CHECK VALVE
RTU	PACKAGED ROOF TOP AC UNIT	⌋	MOTORIZED DAMPER	⌋	BLIND FLANGE
VD	VOLUME DAMPER	⌋	TEMPERATURE SENSOR	⌋	CONTROL VALVE
UH	UNIT HEATER	⌋	FLEXIBLE CONNECTOR	⌋	SOLENOID VALVE
PF	PADDLE TYPE FAN	⌋	BALANCE VALVE	⌋	STRAINER
AC	AIR CONDITIONING	⌋	DRAIN VALVE	⌋	MANUAL AIR VENT
MAU	MAKE-UP AIR UNIT	⌋	PIPE UNION	⌋	PIPE REDUCER
CP	CONTROL PANEL	⌋	STRAINER WITH BLOWDOWN	⌋	DIRECTION OF FLOW
HW&R	HOT WATER SUPPLY & RETURN	⌋	THERMOMETER	⌋	2-WAY CONTROL VALVE
P	PUMP	⌋	LOUVERED DOOR	⌋	3-WAY CONTROL VALVE
UD	UNDERCUT DOOR	⌋			

ROUTE COMB AIR INLET AND FLUE TO CONCENTRIC ADAPTER AND ROUTE UP THRU ROOF PER MANU. RECOMMENDATIONS. SEAL OPENING WEATHERTIGHT.



2 ATTIC PLAN
1/4"=1'-0"

NOTES:
1. INFORMATION SHOWN IS BASED UPON CASUAL FIELD OBSERVATIONS. CONTRACTOR TO FIELD VERIFY EXISTING CONDITIONS PRIOR TO THE START OF WORK.
2. CONTRACTOR TO COORDINATE WITH EXISTING UTILITIES AND OTHER TRADES PRIOR TO THE START OF WORK.
3. ALL AIR CONDITIONING COMPONENTS PROVIDED WITH SYSTEM INCLUDING COOLING COIL, COND DRAIN, REF PIPING, REMOTE CONDENSER AND ALL ASSOCIATED ACCESSORIES ARE AN ADD ALTERNATE.



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Sheet Title:

MECHANICAL PLANS

APPLICATION # 5001

WERNER RESIDENCE

34 Elaine Road
Milford, Connecticut 06460

STATE OF CONNECTICUT
DEPARTMENT OF HOUSING
COMMUNITY DEVELOPMENT BLOCK GRANT
DISASTER RECOVERY PROGRAM
(CDBG-DR)

Date:

1/3/15

Job Number:

Drawn By:

JTF

Approved By:

RJS













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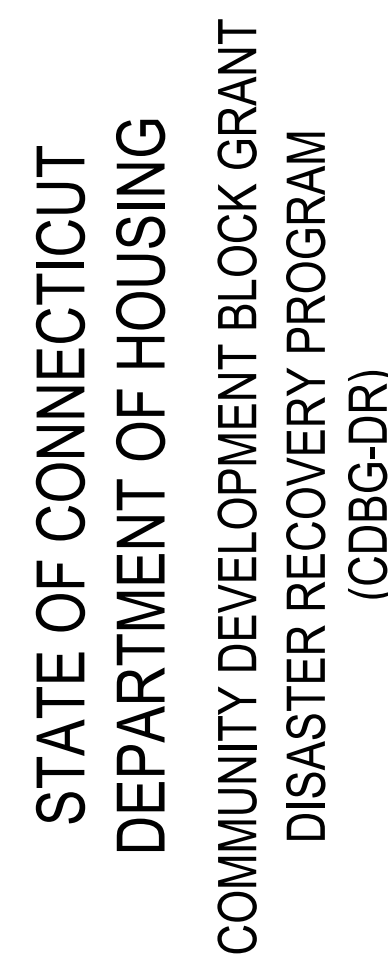
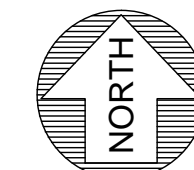
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NOTES:

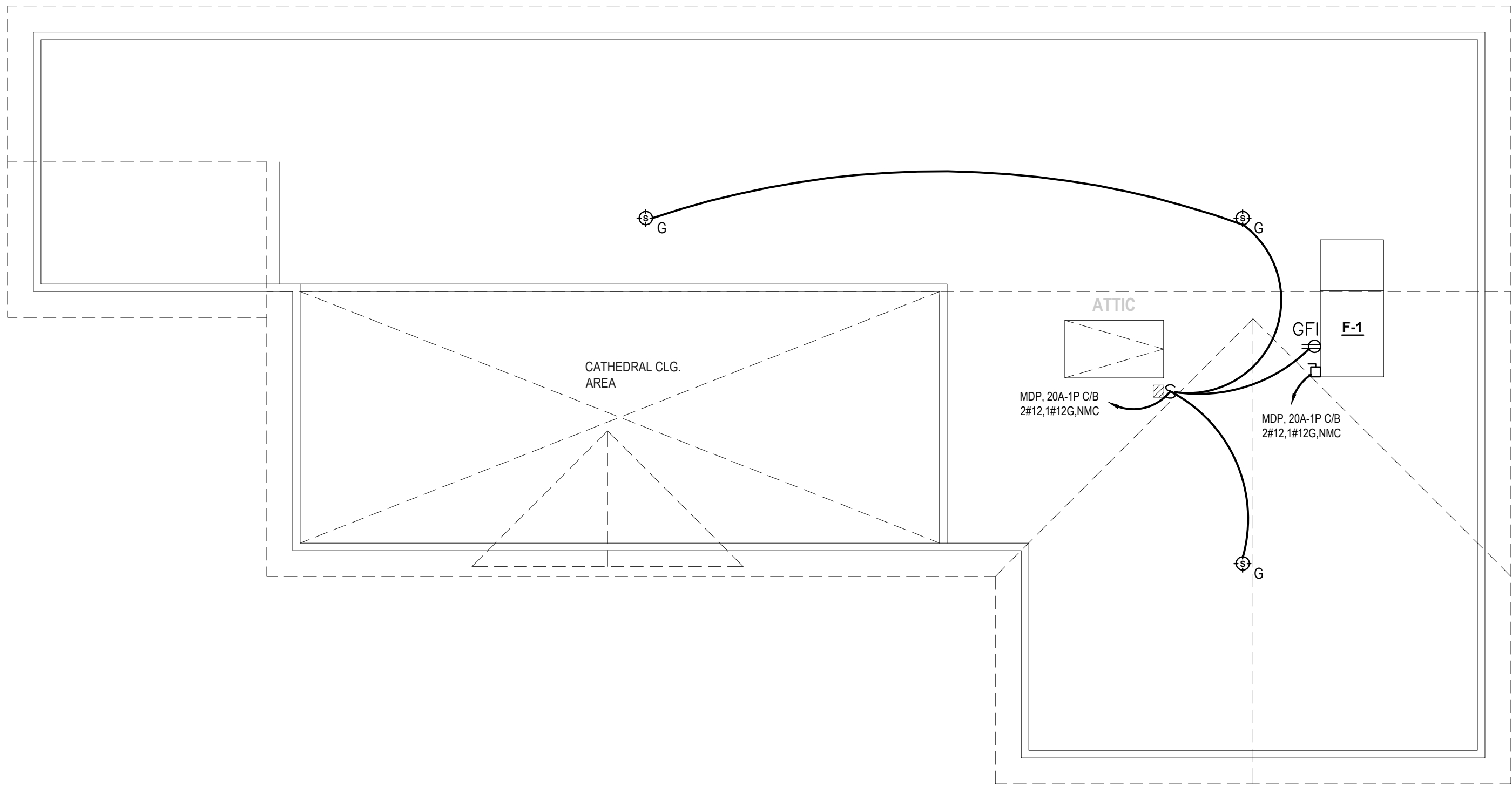
1. A/C EQUIPMENT IS ADD ALTERNATE BY OWNER.
2. SMOKE, SMOKE/CARBON MONOXIDE DETECTORS TO BE WIRED IN TANDEM (TYPICAL) .

LUMINAIRE SCHEDULE					
SYMBOL	LABEL	MANUFACTURER	CATALOG NUMBER	DESCRIPTION	LAMP
	A	PROGRESS LIGHTING	P5011-09	12"Ø INCANDESCENT PENDANT FIXTURE WITH BRUSHED NICKEL FINISH, PRE-WIRED WITH 1' OF WIRE UL-CUL LISTED	1 (m) 100w
	B	PROGRESS LIGHTING	P5012-09	20"Ø INCANDESCENT PENDANT FIXTURE WITH BRUSHED NICKEL FINISH, PRE-WIRED WITH 1' OF WIRE UL-CUL LISTED	1 (m) 100w
	C	KICHLER	8109	INCANDESCENT 2 LAMP FLUSH MOUNT INDOOR CEILING FIXTURE WITH BRUSHED NICKEL FINISH.	2 60W
	D	RAB LIGHTING	FF42QT/PICES	EXTERIOR FLUORESCENT FLOOD LIGHT, DIE CAST ALUMINUM HOUSING, TEMPERED GLASS.	42W TRIPLE
	E	LITHONIA LIGHTING	OSC 13F-12W-LP-L-WH	EXTERIOR FLUORESCENT HALL LIGHT, ALUMINUM HOUSING, WITH WHITE ACRYLIC DIFFUSER, DUSK/DOWN PHOTOCELL.	13W GU25BASE
	F	QUORUM INTERNATIONAL	Q680-9	1"X1" OUTDOOR WALL SCONCE, BLACK OR WHITE FINISH, UL DAMP RATED	1 100W
	G	QUORUM INTERNATIONAL	3089-3-65	SATIN NICKEL MODERN SINGLE FLUSH MOUNT CEILING FIXTURE, GLASS COVER, DAMP LOCATION RATED	1 60W
	H1,2	PRESCOLITE	H1 - DBXOL H2 - LB6LED40L	RECESSED LED DOWN LIGHT MODULE WITH QUICKLINK LED DOWNLIGHT AIRSHIELD HOUSING	-
	I	BROAN	QTXE110FLT	ULTRA-QUIET HIGH PERFORMANCE BATH FAN/LIGHT FIXTURE WITH MODERN STYLED GRILLE.	2 18W GU24 W4W NIGHT LIGHT
	J	SEA GULL	44061-962	2 LIGHT BATH VANITY FIXTURE WITH BRUSHED NICKEL, SATIN WHITE GLASS, UL DAMP RATED.	2 100W
	K	WAC LIGHTING	HR-LED331-WT WITH - HR-LED335-NC-W	RECESSED LED DOWN LIGHT WITH NEW CONSTRUCTION HOUSING	3 LEDS MAX 6W
	L	SEA GULL	5326-962	SINGLE LIGHT BRUSHED NICKEL CEILING FIXTURE WITH WHITE GLASS DIFFUSER	A19 60W MAX.



E-1

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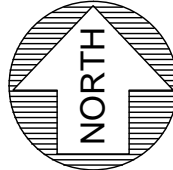
1 ATTIC PLAN
1/4"=1'-0"

NOTES:

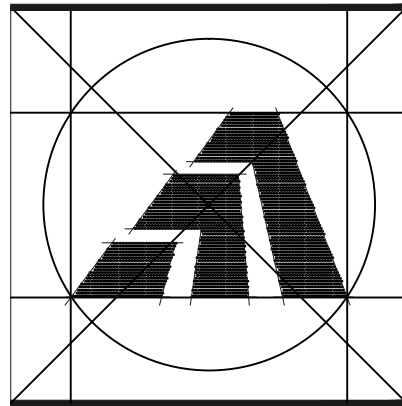
- A/C EQUIPMENT IS ADD ALTERNATE BY OWNER.
- IF A/C IS INSTALLED - ALL SE EQUIP. AND MAIN PANEL MUST BE UPSIZED TO A 240/120V, 1φ, 100A SYSTEM. MUST ALSO BE ADD ALTERNATE BY OWNER. SE CABLE 3-#2/0, 144G, COPPER CABLE.
- SMOKE, SMOKE/CARBON MONOXIDE DETECTORS TO BE WIRED IN TANDEM (TYPICAL) .



LUMINAIRE SCHEDULE					
SYMBOL	LABEL	MANUFACTURER	CATALOG NUMBER	DESCRIPTION	LAMP
	A	PROGRESS LIGHTING	P5011-09	12"Ø INCANDESCENT PENDANT FIXTURE WITH BRUSHED NICKEL FINISH, PRE-WIRED WITH 10' OF WIRE UL-CUL LISTED	1 (m) 100w
	B	PROGRESS LIGHTING	P5012-09	20"Ø INCANDESCENT PENDANT FIXTURE WITH BRUSHED NICKEL FINISH, PRE-WIRED WITH 10' OF WIRE UL-CUL LISTED	1 (m) 100w
	C	KICHLER	8109	INCANDESCENT 2 LAMP FLUSH MOUNT INDOOR CEILING FIXTURE WITH BRUSHED NICKEL FINISH.	2 60W
	D	RAB LIGHTING	FF42QT/PCIES	EXTERIOR FLUORESCENT FLOOD LIGHT, DIE CAST ALUMINUM HOUSING, TEMPERED GLASS.	42W TRIPLE
	E	LITHONIA LIGHTING	OSC 13F-120-P-LP-WH	EXTERIOR FLUORESCENT WALL LIGHT, ALUMINUM HOUSING, WITH WHITE ACRYLIC DIFFUSER, DUSK/DAWN PHOTOCELL.	13W GU28BASE
	F	QUORUM INTERNATIONAL	Q680-9	1 LIGHT OUTDOOR WALL SCONCE, BLACK OR WHITE FINISH, UL DAMP RATED	1 100W
	G	QUORUM INTERNATIONAL	3009-3-65	SATIN NICKEL MODERN SINGLE FLUSH MOUNT CEILING FIXTURE, GLASS COVER, DAMP LOCATION RATED	1 60W
	H1,2	PRESCOLITE	H1 - DBXQL H2 - LB6LEDA10L	RECESSED LED DOWN LIGHT MODULE WITH QUICKLINK LED DOWNLIGHT AIRSHIELD HOUSING	-
	I	BROAN	QTXE110FLT	ULTRA-QUIET HIGH PERFORMANCE BATH FAN/LIGHT FIXTURE WITH MODERN STYLED GRILLE.	2 18W GU24 W4W NIGHT LIGHT
	J	SEA GULL	44061-962	SATIN WHITE GLASS, UL DAMP RATED.	2 100W
	K	WAC LIGHTING	HR-LED331-MT WITH - HR-LED309-NIC-W	RECESSED LED DOWN LIGHT WITH NEW CONSTRUCTION HOUSING	3 LEDS MAX 6W
	L	SEA GULL	5326-962	SINGLE LIGHT BRUSHED NICKEL CEILING FIXTURE WITH WHITE GLASS DIFFUSER	A19 60W MAX.



ELECTRICAL FIXTURE KEY	
A, B	PENDANT LIGHT FIXTURE
C, G, L	SURFACE MOUNTED LIGHT FIXTURE
H1, H2	RECESSED CEILING LIGHT FIXTURE
D	WALL MOUNTED FLOOD LIGHT FIXTURE
E	EXTERIOR SURFACE LIGHT FIXTURE
F	EXTERIOR SURFACE LIGHT
I	EXHAUST FAN/LIGHT
J	WALL MOUNTED 2 LIGHT VANITY FIXTURE
K	RECESSED LED CEILING LIGHT FIXTURE
S	SINGLE POLE SWITCH
S3	THREE WAY SWITCH
S4	FOUR WAY SWITCH
Sps	FULL SWITCH
	DUPLEX RECEPTACLE
	DUPLEX WITH GROUND FAULT INTERRUPTER
	DUPLEX WATER PROOF GROUND FAULT INTERRUPTER
	ARC FAULT INTERRUPTED DUPLEX RECEPTACLE
	ARC FAULT INTERRUPTED DUPLEX RECEPTACLE TOP SWITCHED
	QUADROX RECEPTACLE
	DEDICATED RECEPTACLE
	DRYER RECEPTACLE
	TELEPHONE OUTLET / INTERNET OUTLET
	COAXIAL CABLE FOR TELEVISION
	EXHAUST FAN
	EXHAUST FAN/LIGHT
	CEILING FAN
	SMOKE DETECTOR
	CARBON MONOXIDE DETECTOR
MDP	MAIN DISTRIBUTION PANEL
NMX	ROMEX
NOTE: WHERE OUTLETS ARE NOT SPECIFICALLY LOCATED ON THE DRAWINGS, PROVIDE MINIMUM NUMBER TO SATISFY LOCAL AND ALL GOVERNING CODES. LOCATE AS DETERMINED IN THE FIELD WITH THE ARCHITECT. WHERE OUTLETS ARE REQUIRED BY CODE AND INSTALLED WITHOUT SUCH SPECIFIC DIRECTION, LOCATE AS DIRECTED BY THE ARCHITECT	
NOTE: COORDINATE FIXTURE LOCATION WITH FRAMING, HVAC PLANS AND INTERIOR DRAWINGS.	



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email : info@loureiro.com
Comm No. 01MH4.16

Sheet Title:
ELECTRICAL PLANS

APPLICATION # 5001

WERNER RESIDENCE
34 Elaine Road
Milford, Connecticut 06460

STATE OF CONNECTICUT
DEPARTMENT OF HOUSING
COMMUNITY DEVELOPMENT BLOCK GRANT
DISASTER RECOVERY PROGRAM
(CDBG-DR)

Date:
1/31/5

Job Number:
Drawn By: JTF
Approved By: JKH

Sheet Number:

E-2

DIVISION 15000 - MECHANICAL

PART 1 - GENERAL

- 1.1 PIPE HANGERS AND SUPPORTS SHALL MEET THE REQUIREMENTS OF MSS SP-69 AND SP-89 DEVELOPED BY THE MANUFACTURERS STANDARDIZATION SOCIETY OF THE VALVES AND FITTINGS INDUSTRY INC.
- 1.2 SEISMIC SUPPORTS AND RESTRAINTS FOR EQUIPMENT, DUCTWORK AND PIPING SHALL MEET STATE BUILDING CODE REQUIREMENTS AND SMACNA SEISMIC RESTRAINT MANUAL GUIDELINES.
- 1.3 GENERAL PIPING REQUIREMENTS:
- A. ALL PIPING SHALL BE RUN PARALLEL TO THE LINE OF THE BUILDING.
- B. PITCH OF LINES SHALL BE UNIFORM AND TRUE WITH NO SAGS, POCKETS OR TRAPS. ECCENTRIC FITTINGS SHALL BE USED WHERE NECESSARY TO PROVIDE COMPLETE DRAINAGE.
- C. PROVIDE ISOLATION VALVES AT ALL CONNECTIONS TO FIXTURES AND ALL BRANCH TAKE-OFFS.
- D. PROVIDE MANUAL VENT VALVES AT ALL HIGH POINTS AND DRAIN VALVES AT ALL LOW POINTS.
- E. SCREWED PIPE JOINTS SHALL BE MADE WITH TEFLON PIPE THREAD TAPE OR APPROVED PIPE JOINT COMPOUND.
- 1.4 GENERAL DUCTWORK REQUIREMENTS:
- A. ALL DUCTWORK SHALL BE INSTALLED STRAIGHT AND PARALLEL TO LINE OF BUILDING AND SHALL BE SUBSTANTIALLY SUPPORTED AS REQUIRED BY SMACNA MANUALS.
- B. DUCT SIZES SHOWN SHALL BE STRICTLY FOLLOWED AND NO CHANGES IN SHAPE OR DIMENSIONS SHALL BE MADE BY THE CONTRACTOR WITHOUT FIRST OBTAINING APPROVAL FROM THE ENGINEER. WHERE DUCTS MUST BE OFFSET TO CLEAR STRUCTURAL MEMBERS AND, IF NECESSARY TO ALTER DIMENSIONS OF THE DUCTS, THIS MAY BE DONE PROVIDED THE CROSS-SECTIONAL AREA IS IN NO CASE REDUCED.
- C. ALL DUCT RUNS SHALL BE CHECKED FOR CLEARANCES BEFORE INSTALLATION OF ANY DUCTWORK. ABOVE HUNG CEILINGS, DUCT LOCATIONS AND ELEVATIONS MUST BE COORDINATED WITH WORK OF OTHER TRADES TO AVOID CONFLICTS WITH EXISTING DUCTWORK, PIPING, CONDUIT AND RECESSED FIXTURES. CLEARANCES BELOW DUCTS IN EQUIPMENT ROOMS AND AREAS WITHOUT HUNG CEILINGS MUST BE ADEQUATE FOR ACCESS AND MAINTENANCE OF EQUIPMENT.
- D. INSTALL FLEXIBLE DUCT CONNECTIONS AT INLET AND DISCHARGE DUCT CONNECTIONS TO FANS.
- E. INSTALL MINIMUM 10" X 12" ACCESS DOOR FOR INSPECTION IN DUCTS AT ALL DUCT MOUNTED ACCESSORIES, CONTROL COMPONENTS AND WHERE SHOWN ON THE DRAWINGS.
- 1.5 TESTING:
- A. ALL PIPING SYSTEMS INSTALLED UNDER THIS CONTRACT SHALL BE PRESSURE TESTED WITH CLEAN WATER, UNLESS NOTED OTHERWISE, TO INSURE TIGHTNESS.
1. HOT AND COLD WATER SUPPLY PIPING SHALL BE TESTED TO 150 PSIG.
2. DRAINAGE AND VENT PIPING SHALL BE TESTED TO 10 FOOT HEAD OF WATER.
3. GAS PIPING SHALL BE TESTED IN ACCORDANCE WITH NFPA 54. TEST PRESSURE SHALL BE 3 PSIG. TEST MEDIUM SHALL BE AIR, NITROGEN OR CARBON DIOXIDE.
4. REFRIGERATION PIPING SHALL BE TESTED TO 200 PSIG. TEST MEDIUM SHALL BE NITROGEN.
- B. CONTRACTOR SHALL BE RESPONSIBLE FOR FURNISHING ALL PLUGS, PIPING, VALVES, HOSES, AND PUMPS NECESSARY FOR THE REQUIRED TESTS AND FOR PROPER DISPOSAL OF THE TEST MEDIUM UPON COMPLETION OF THE TESTS.
- 1.6 CLEANING OF THE PIPING SYSTEMS:
- A. UPON COMPLETION OF ALL WORK AND SATISFACTORY TESTING, ALL PIPING SYSTEMS (EXCEPT REFRIGERATION AND GAS PIPING) SHALL BE FLUSHED WITH WATER TO REMOVE DIRT, GRIT, CHIPS AND FOREIGN MATTER. GAS PIPING SHALL BE PURGED OF AIR IN ACCORDANCE WITH NFPA 54.
- B. WATER FOR FLUSHING SHALL BE USED IN SUFFICIENT QUANTITY TO PRODUCE A VELOCITY OF AT LEAST 2.5 FEET PER SECOND. FLUSHING SHALL CONTINUE UNTIL DISCHARGE WATER SHOWS NO DISCOLORATION OR EVIDENCE OF FOREIGN MATERIALS.
- C. DURING FLUSHING OPERATION, ALL VALVES SHALL BE OPERATED SEVERAL TIMES, BYPASSES OPENED AND EQUIPMENT FLUSHED.
- D. UPON COMPLETION OF FLUSHING OPERATIONS, ALL STRAINERS, FILTERS AND BLOWDOWNS SHALL BE REMOVED AND CLEANED OF ACCUMULATED WASTE.
- E. CARE SHOULD BE TAKEN TO INSURE THE COMPLETE REMOVAL OF ALL WATER FROM THE LINE OR SYSTEM AFTER TESTING. IF THERE IS ANY DANGER OF CONTAMINATION OR FREEZING, BLOW OUT THE FLUID WITH DRY, OIL-FREE AIR.
- 1.7 CLEANING AND STERILIZATION OF POTABLE WATER SYSTEM: PURGE OF DELETERIOUS MATTER AND DISINFECT PRIOR TO USE. THE METHOD TO BE FOLLOWED SHALL BE THAT PRESCRIBED BY THE HEALTH AUTHORITY HAVING JURISDICTION, OR, IN THE ABSENCE OF A PRESCRIBED METHOD, THE PROCEDURE DESCRIBED IN EITHER AWWA C652 OR AWWA C6186.
- 1.8 INSULATION FOR REFRIGERANT PIPING SHALL BE FLEXIBLE, ELASTOMERIC CELLULAR, ARMSTRONG ARMAFLEX AP OR APPROVED EQUAL. SEAMS AND JOINTS SHALL BE SEALED WITH MANUFACTURERS ADHESIVE. ALL INSULATION SHALL BE FINISHED WITH MANUFACTURERS FINISH. INSULATION THICKNESS AT SUCTION LINE AND LIQUID LINE SHALL BE 1-1/2".
- 1.9 PIPE INSULATION SHALL BE RIGID, HEAVY DENSITY, PREFORMED GLASS FIBER, WITH ALL SERVICE JACKET. JACKET SHALL HAVE PRESSURE SENSITIVE TAPE CLOSURE. BUTT JOINTS SHALL HAVE 3" WIDE TAPE OF SAME MATERIAL. VALVES AND FITTINGS SHALL BE INSULATED WITH ZESTON, OR APPROVED EQUAL. INSULATED PVC, ONE PIECE, SNAP-TYPE COVERS AND ZESTON 1 1/2" Z-TAPE, 10 MIL. EXTERIOR INSULATED PIPES SHALL HAVE ALUMINUM JACKET. INSULATION THICKNESS AS FOLLOWS:
- | SYSTEM | INSULATION THICKNESS |
|--|----------------------|
| A. DOMESTIC COLD WATER EXTERIOR TO BLDG ENVELOPE | 2" |
| B. DOMESTIC COLD WATER | 1-1/2" |
| C. DOMESTIC HOT WATER AND TEMPERED HW | 1-1/2" |
- 1.10 PIPE IDENTIFICATION:
- A. ALL PIPING SHALL BE IDENTIFIED WITH NAME AND FLOW DIRECTION ARROWS. MARKERS SHALL BE PLACED EVERY 40 LINEAL FEET ON STRAIGHT RUNS, AT CHANGES IN DIRECTION, AND AT WALL PENETRATIONS (BOTH SIDES).
- B. PIPE MARKERS SHALL BE EQUAL TO SETMARK, AS MANUFACTURED BY SETON NAMEPLATE CO.
1. TEXT AND BACKGROUND COLORS SHALL FOLLOW ANSI A13.1.
- 1.10 DUCT INSULATION:
- A. MATERIALS SHALL BE MANVILLE, OWENS/CORNING, CERTAINTED OR APPROVED EQUAL.
- B. INSULATION FOR SUPPLY AND RETURN AIR DUCTWORK SHALL BE 1-1/2", 1 LB. NOMINAL DENSITY FIBERGLASS BLANKET WITH FSK JACKET APPLIED AS RECOMMENDED BY THE MANUFACTURER.

PART 2 - PLUMBING

- 2.1 WATER PIPING: SHALL BE TYPE L HARD DRAWN COPPER TUBING CONFORMING TO ASTM B88, WITH ASME B16.22 WROUGHT COPPER FITTINGS, ASTM B32 SOLDER GRADE B31A JOINTS. PEX PIPING WITH ASSOCIATED FITTINGS ALLOWED FOR INDIVIDUAL RUNOUTS FROM HEADER.
- 2.2 BURIED DRAINAGE PIPING: SANITARY AND VENT PIPING SHALL BE CENTRIFUGALLY SPUN, BELL AND SPIGOT, SERVICE WEIGHT, CAST IRON PIPE, TAR COATED CONFORMING TO ASTM A74. FITTINGS SHALL BE MADE OF SAME MATERIAL AS PIPE. FITTINGS SHALL BE COMPATIBLE WITH IT. JOINTS SHALL BE MADE USING NEOPRENE SEALING SLEEVE AND A 4-BAND STAINLESS STEEL SHIELD WITH TIGHTENING DEVICE.
- 2.3 ABOVE GROUND DRAINAGE PIPING: SANITARY AND VENT PIPING SHALL BE CENTRIFUGALLY SPUN, BELL AND SPIGOT, SERVICE WEIGHT "NO HUB" CAST IRON PIPE, TAR COATED, CONFORMING TO ASTM A74. FITTINGS SHALL BE MADE OF SAME MATERIAL AS PIPE AND SHALL BE COMPATIBLE WITH IT. JOINTS SHALL BE MADE USING NEOPRENE SEALING SLEEVE AND A 4-BAND STAINLESS STEEL SHIELD WITH TIGHTENING DEVICE.
- 2.4 NATURAL GAS PIPING: NATURAL GAS PIPING SHALL BE SCHEDULE 40 BLACK STEEL CONFORMING TO ASTM A53. FITTINGS SHALL BE 150 LB MALLEABLE IRON SOREWED CONFORMING TO ASTM B16.3. JOINTS SHALL BE THREADED OR WELDED IN ACCORDANCE WITH ANSI B31.2 AND NFPA 54.
- 2.5 VALVES SHALL BE AS FOLLOWS:
- A. BALL VALVES: 2" AND SMALLER - JAMESBURY CLINCHER SERIES 2000.
- B. PLUG VALVES: 2" AND SMALLER - DEZURIK SERIES 100.
- 2.6 WATER HAMMER ARRESTERS: TYPE "K" HARD DRAWN COPPER BARREL, BRASS PISTON AND THREADED ADAPTER, NORMAL OPERATING PRESSURE 35 TO 250 PSIG. WATER HAMMER ARRESTERS SHALL BE PRECISION PLUMBING PRODUCTS INC., SC SERIES, MODEL SC500 OR EQUAL.
- 2.7 PLUMBING FIXTURES (OR APPROVED EQUAL):
- A. WATER CLOSET: VITREOUS CHINA, FLOOR MOUNTED, ELONGATED BOWL, WHITE, LOW CONSUMPTION 1.6 GPF, AMERICAN STANDARD MODEL 2214B.004 WITH AMERICAN STANDARD MODEL 5324.019 WHITE SEAT.
- B. LAVATORY: ENAMEL STEEL, WHITE, 4" CENTERS, AMERICAN STANDARD MODEL 3004.207. PROVIDE CHROME FINISHED, SINGLE LEVER HANDLE FAUCET, AMERICAN STANDARD MODEL 2175.502 WITH 1.5 GPM AERATOR, SUPPLIES AND 1-1/4" TAILPIECE WITH POP-UP DRAIN.
- C. SHOWER/TUB: 60"X32"X72.5", ONE-PIECE, WHITE, SOLID SURFACE, AQUARIUS MODEL G-6004-TS. PROVIDE CHROME FINISHED SYMMONS ALLURA MODEL S-4702 TUB/SHOWER SYSTEM WITH SYMMONS TEMPTROL PRESSURE BALANCING, DIAPHRAGM TYPE MIXING VALVE WITH 2.0 GPM FLOW RESTRICTOR, DIVERTER/VOLUME CONTROL AND TUB SPOUT.
- D. KITCHEN SINK: COUNTER MOUNTED, SELF-RIMMING, 18 GA. STAINLESS STEEL, SINGLE HOLE, JUST MODEL SLX-2225-A-GR. PROVIDE SINGLE HANDLE, PULL OUT SPRAY, CHROME FINISHED FAUCET, JUST MODEL JPO-1500 WITH 2.2 GPM AERATOR, JUST MODEL JB-99 DRAIN WITH STRAINER AND 1-1/2" TAILPIECE.
- E. CLOTHES WASHER CONNECTION: SYMMONS MODEL W-602 WITH BRASS WATER CONTROL VALVES AND DRAIN.
- 2.8 PLUMBING EQUIPMENT
- A. DOMESTIC WATER HEATER SHALL BE ENERGY STAR RATED, PACKAGED, WALL MOUNTED, NATURAL GAS-FIRED, TANKLESS, ULTRA HIGH EFFICIENCY (0.98 ENERGY FACTOR), CONDENSING TYPE, NAVIEN MODEL NPE-180S OR APPROVED EQUAL. PROVIDE WITH INTEGRAL DDC CONTROLS, FULLY MODULATING BURNER WITH DIRECT SPARK IGNITION, DUAL STAINLESS STEEL HEAT EXCHANGERS, GAS VALVE WITH SAFETIES, PLUMB EASY VALVE SET, DIRECT VENT WITH OUTDOOR VENT KIT AND CONDENSATION NEUTRALIZATION KIT. HEATER SHALL BE DESIGNED FOR USE WITH 150V1/PHASE POWER. CAPACITY SHALL BE 15,000 TO 150,000 BTU/H WITH AN ENERGY FACTOR OF 0.98.
- B. WATER HEATER FLUE AND COMBUSTION AIR INTAKE SHALL BE SCHEDULE 40 PVC WITH SOLVENT WELD FITTINGS.
- PART 3 - HVAC
- 3.1 FURNACE
- A. HORIZONTAL (UPFLOW), 96% AFUE, ENERGY STAR RATED, TWO-STAGE, NATURAL GAS-FIRED, DIRECT VENTED, MULTI-SPEED ECM BLOWER MOTOR, AMERICAN STANDARD GOLD 2M SERIES, MODEL A4H2B69AR.0VS MAXIMUM CAPACITY 85,000 BTU/H. PROVIDE WITH CONCENTRIC VENT ADAPTER KIT MODEL BAYAIR30AVENTA.
- B. COOLING COIL: CASED HORIZONTAL, SPLIT SYSTEM, MATCHED TO FURNACE, AMERICAN STANDARD 4TXC SERIES.
- C. REMOTE AIR-COOLED CONDENSER: R-410A BASED, MINIMUM 16 SEER, DESIGNED FOR USE WITH SPECIFIED GAS-FIRED FURNACE, PLATINUM XM SERIES, AMERICAN STANDARD MODEL 4A7A6036E.
- 3.2 EXHAUST FANS:
- A. EF-1: ENERGY STAR RATED, LOW NOISE, CEILING MOUNT TYPE, FAN SHALL BE VARIABLE SPEED, DIRECT DRIVE, BRUSHLESS DC MOTOR, ACOUSTICALLY INSULATED AND AMCA CERTIFIED. PROVIDE FAN WITH CEILING GRILLE, 32-WATT FLUORESCENT LIGHT AND 4-WATT NIGHT LIGHT. NOISE LEVEL SHALL BE LESS THAN 1 SONE AT HIGH SPEED. FAN SHALL BE PANASONIC WHISPER-LITE SERIES MODEL FV-08VQL4.
- B. KH-1: ENERGY STAR RATED, LOW NOISE, OVER RANGE KITCHEN HOOD. HOOD SHALL BE DIRECT DRIVEN, ACOUSTICALLY INSULATED AND AMCA CERTIFIED. PROVIDE HOOD WITH LIGHT AND GREASE FILTER. HOOD SHALL BE DESIGNED FOR HORIZONTAL OR VERTICAL DUCTING. NOISE LEVEL SHALL BE LESS THAN 4 SONES AT HIGH SPEED. HOOD SHALL BE AIR KING ESQ SERIES/ESADA ACCESSIBLE SERIES OR EQUAL. (ALTERNATE)
- 3.3 REMOTE AIR-COOLED CONDENSER
- A. R-410A BASED, MINIMUM 14.50 SEER, AMERICAN STANDARD SILVER SI SERIES. CONDENSER SHALL BE DESIGNED FOR USE WITH EXISTING AMERICAN STANDARD FREEDOM 90 GAS-FIRED FURNACE. CONTRACTOR TO FIELD VERIFY REQUIRED CAPACITY.
- 3.4 PIPING
- A. REFRIGERANT PIPING SHALL BE TYPE L ACR COPPER TUBING WITH WROUGHT COPPER FITTINGS AND 95/5 SOLDERED JOINTS.
- 3.5 DUCTWORK SHALL BE CONSTRUCTED OF GALVANIZED STEEL IN ACCORDANCE WITH ASHRAE AND SMACNA STANDARDS. PROVIDE TURNING VANES WHERE SQUARE ELBOWS ARE USED. ACCESS DOORS AT ALL DUCT MOUNTED CONTROL DEVICES AND VOLUME DAMPERS AS REQUIRED FOR PROPER BALANCING OF THE SYSTEM. FLEXIBLE DUCT SHALL BE THERMAFLEX MODEL M4F WITH 1 1/2" INSULATION, UL 161 LISTING AND MAXIMUM LENGTH OF 8'-0".
- 3.6 DIFFUSER, REGISTERS AND GRILLES
- A. SUPPLY DIFFUSERS SHALL BE TITUS MODEL TMSA OF STEEL CONSTRUCTION WITH MODEL AG-75 OPPOSED BLADE DAMPER AND ADJUSTABLE LOUVER VANES. SIZE AND CAPACITY AS NOTED ON THE DRAWINGS.

- 3.7 CONTROLS: ELECTRONIC CONTROLS SHALL INCLUDE THERMOSTATS, CONTROL PANELS, RELAYS, TRANSFORMERS, SENSORS AND ACCESSORIES AS REQUIRED TO PERFORM THE SEQUENCES AS DESCRIBED BELOW. INSTALLATION OF CONDUIT, CONDUCTORS AND ELECTRICAL DEVICES SHALL CONFORM TO DIVISION 16000 - ELECTRICAL.

- A. THERMOSTAT SHALL BE TOUCH SCREEN, 7-DAY PROGRAMMABLE TYPE, HONEYWELL MODEL RTH8500N.
- B. SEQUENCES OF OPERATION:
1. BATHROOM EXHAUST FAN SHALL OPERATE UPON ACTIVATION OF ROOM LIGHT SWITCH, FAN SHALL OPERATE ON HIGH SPEED SUBJECT TO A (ADJ.) TIME DELAY.
2. KITCHEN EXHAUST FAN SHALL OPERATE UPON ACTIVATION OF ROOM SWITCH.
3. FURNACE SHALL START AND MODULATE THE GAS-FIRED BURNER OR COMPRESSOR TO MAINTAIN SETPOINT (70 DEG HEATING/75 DEG F COOLING, ADJUSTABLE) AS MEASURED AT THE ROOM THERMOSTAT.
- B. EXHAUST FAN SHALL OPERATE UPON ACTIVATION OF ROOM LIGHT SWITCH, FAN SHALL OPERATE ON HIGH SPEED SUBJECT TO A (ADJ.) TIME DELAY.
- PART 4 - EXECUTION

- 4.1 CONTRACTOR SHALL FIELD VERIFY EXISTING CONDITIONS PRIOR TO THE START OF WORK INCLUDING SIZES OF PIPING TO BE RE-USED. CONTRACTOR SHALL NOTIFY THE OWNER IF ANY DIFFERENCES FROM THE DESIGN DOCUMENTS ARE NOTED.
- 4.2 CONTRACTOR SHALL COORDINATE WITH ALL TRADES PRIOR TO THE START OF WORK.
- 4.3 ALL EQUIPMENT SHALL BE INSTALLED PER MANUFACTURERS RECOMMENDATIONS.
- 4.4 CONTRACTOR SHALL INSTRUCT HOMEOWNER ON THE PROPER OPERATION AND MAINTENANCE OF ALL EQUIPMENT AT THE COMPLETION OF CONSTRUCTION AT A TIME CONVENIENT TO THE OWNER.
- 4.5 CONTRACTOR SHALL PROVIDE TWO COPIES OF PROJECT O&M MANUALS TO THE OWNER AT COMPLETION OF PROJECT.

DIVISION 1600 - ELECTRICAL

- WORK INCLUDED - THE WORK TO BE PROVIDED UNDER THIS DIVISION INCLUDES:
- A. FEEDERS AND PANELS.
- B. POWER WIRING FOR MECHANICAL AND PLUMBING EQUIPMENT.

SCOPE - THIS WORK SHALL CONSIST OF THE FURNISHING OF ALL LABOR, MATERIALS AND SERVICES REQUIRED COMPLETE, READY FOR CORRECTION OPERATIONS. WORKMANSHIP DISCLOSED FOR BY THE ACCOMPANYING DRAWINGS AND SPECIFICATIONS. ALL ELECTRICAL SHALL BE PERFORMED IN ACCORDANCE WITH THE 2011 NATIONAL ELECTRICAL CODE, STATE AND LOCAL CODES.

PERMITS, FEES AND INSPECTIONS - THE CONTRACTOR SHALL GIVE ALL NECESSARY NOTICES, OBTAIN ALL PERMITS, PAY ALL GOVERNMENTAL AND STATE SALES TAXES AND FEES APPLICABLE. THE CONTRACTOR SHALL FILE ALL DRAWINGS, AND OBTAIN ALL NECESSARY APPROVAL FROM PROPER AUTHORITY OR AGENCY HAVING JURISDICTION, OBTAIN ALL REQUIRED CERTIFICATES OF INSPECTION COVERING HIS WORK. THE CONTRACTOR SHALL SEE THAT ALL REQUIRED INSPECTIONS AND TESTS ARE MADE AND SHALL COOPERATE TO MAKE THESE TESTS AS THOROUGH AND AS READILY MADE AS POSSIBLE.

COORDINATION - ALL WORK SHALL BE CARRIED OUT IN CONJUNCTION WITH OTHER TRADES AND FULL COOPERATION SHALL BE GIVEN IN ORDER THAT ALL WORK MAY PROCEED WITH A MINIMUM OF DELAY AND INTERFERENCE.

GUARANTEES - ALL WORKMANSHIP AND MATERIALS SHALL BE FULLY GUARANTEED FOR A PERIOD OF ONE YEAR AFTER FINAL COMPLETION OF THE ENTIRE INSTALLATION COVERED BY THIS CONTRACT. SHOULD ANY DEFECTS OCCUR DURING THIS GUARANTEE PERIOD, THE CONTRACTOR SHALL REPAIR AND/OR REPLACE ALL DEFECTIVE EQUIPMENT, MATERIALS AND/OR WORK WITHOUT COST TO THE OWNER.

TEMPORARY LIGHT AND POWER - FURNISH AND INSTALL TEMPORARY ELECTRICAL POWER AND LIGHTING FOR USE BY ALL CONTRACTORS DURING THE COURSE OF CONSTRUCTION. ALL TEMPORARY WORK SHALL BE IN COMPLIANCE WITH ALL APPLICABLE ARTICLES IN THE NATIONAL ELECTRICAL CODE, O.S.H.A. AND WITH ALL REQUIREMENTS OF ANY AUTHORITIES HAVING JURISDICTION OVER WORK.

MATERIALS AND WORKMANSHIP - ALL MATERIALS AND APPARATUS REQUIRED FOR THE WORK EXCEPT AS OTHERWISE SPECIFIED, SHALL BE NEW AND OF FIRST-CLASS QUALITY AND SHALL BE FURNISHED, DELIVERED, ERECTED, CONNECTED AND FINISHED IN EVERY DETAIL AND SO SELECTED AND ARRANGED AS TO FIT PROPERLY INTO THE BUILDING SPACES, WHERE NO SPECIFIC KIND OR QUALITY OF MATERIAL IS GIVEN, A FIRST-CLASS STANDARD ARTICLE AS ACCEPTED BY THE ARCHITECT SHALL BE FURNISHED. ALL EQUIPMENT AND MATERIALS SHALL BE SPECIFICATION GRADE AND BEAR THE UNDERWRITER'S LABEL. ALL WORK SHALL BE OF A QUALITY CONSISTENT WITH GOOD TRADE PRACTICE AND SHALL BE INSTALLED IN A NEAT, WORKMANLIKE MANNER. THE ARCHITECT RESERVES THE RIGHT TO REJECT ANY WORK WHICH, IN HER OPINION, HAS BEEN INSTALLED IN A SUB-STANDARD, DANGEROUS OR UNSERVICEABLE MANNER. THE CONTRACTOR SHALL REPLACE SAID WORK IN A SATISFACTORY MANNER AT NO EXTRA CHARGE TO THE OWNER.

PENETRATION SEALANT - ALL PENETRATIONS SHALL BE SEALED WITH 3M INTUMESCENT FIRE BARRIER PENETRATION SEALANT, APPLIED PER MANUFACTURERS AND U.L. GUIDELINES.

MATERIALS:

GENERAL - ALL MATERIALS AND EQUIPMENT PROVIDED UNDER THIS SECTION SHALL BE NEW, FIRST GRADE, BEST OF THEIR SECTION AND SHALL MEET THE REQUIREMENTS OF ALL STANDARDS SET UP TO GOVERN THE MANUFACTURE OF ELECTRICAL MATERIALS AND COMPLY WITH ALL APPLICABLE CODES AND STANDARDS. ALL EQUIPMENT AND MATERIALS SHALL BE SPECIFICATION GRADE AND BEAR UNDERWRITER'S (U.L.) LABEL.

POWER - FROM UTILITY AT 240/120V, 1 PHASE, 3 WIRE IS AVAILABLE FROM EXISTING UTILITY METER AND METER CAN AS SHOWN ON THE DRAWINGS.

WIRE - CONDUCTORS SHALL BE U.L. LISTED, 600 VOLTS, 90 DEG. C. SINGLE CONDUCTOR TYPE THWN/THHN, 98% CONDUCTIVITY ANNEALED UNCOATED COPPER WITH PVC INSULATION COVERED WITH NYLON SHEATH JACKET. TESTED IN ACCORDANCE WITH THE REQUIREMENTS OF THE UNDERWRITER'S LABORATORIES STANDARD 83. WIRE SHALL BE IDENTIFIED BY SURFACE MARKING, INDICATING MANUFACTURER'S IDENTIFICATION, CONDUCTOR SIZE AND METAL. VOLTAGE RATINGS, U.L. SYMBOL AND TYPE DESIGNATION. CONDUCTORS SHALL BE STRANDED. MINIMUM SIZE SHALL BE #12AWG UNLESS OTHERWISE INDICATED. MANUFACTURED BY ESSEX, ROME CABLE, TRIANGLE CABLE OR GENERAL CABLE.

NON METALLIC SHEATHED CABLE - TYPE - NM-B CABLE SHALL BE OF MAXIMUM OPERATING VOLTAGE: 600 VOLTS, MAXIMUM CONDUCTOR OPERATION TEMPERATURE: 90°C DRY (CONDUCTOR AMPACITY IS LIMITED TO 60°C, IN ACCORDANCE WITH NEC).

ARMORED CABLE (AC) - ARMORED CABLE SHALL BE OF GALVANIZED STEEL INTERLOCKING ARMOR CONSTRUCTION, COLOR CODED THERMOPLASTIC INSULATED COPPER CONDUCTORS, 90 DEG. C, 600 VOLTS. CONDUCTOR SIZES SHALL BE AS INDICATED ON THE DRAWINGS. IF NOT INDICATED, THE SIZES OF POWER AND LIGHTING CONDUCTORS SHALL NOT BE LESS THAN SIZE #12AWG. MANUFACTURED BY AMERICAN FLEXIBLE CONDUIT, TRIANGLE OR SOUTHWIRE. CONNECTORS SHALL BE SQUEEZE TYPE, DIE CAST ZINC, OR MALLEABLE IRON - CADMIUM PLATED, MANUFACTURED BY O-Z GEDNEY, APPLETON OR THOMAS-BETTS.

FITTINGS - CONDUIT STRAPS SHALL BE SNAP-TYPE, DOUBLE RIBBED STEEL - ZINC PLATED. METAL CLAD CABLE AND FLEXIBLE METALLIC CONDUIT CONNECTORS SHALL BE MALLEABLE IRON-ZINC PLATED, MALE HUB THREADS WITH LOCKNUT.

BOXES - RECESSED OUTLET BOXES SHALL BE DRAWN STEEL, GALVANIZED WITH A MINIMUM DEPTH OF 1-1/2 INCHES. MINIMUM SIZE SHALL BE 4 INCH X 4 INCH SQUARE. PROVIDE AND INSTALL PLASTIC RINGS AS REQUIRED. OUTLET BOXES FOR SURFACE MOUNTED SWITCHES AND RECEPTACLES SHALL BE TYPE FD, CAST FERROALLOY WITH THREADED HUBS. PROVIDE GASKETED COVER AS REQUIRED.

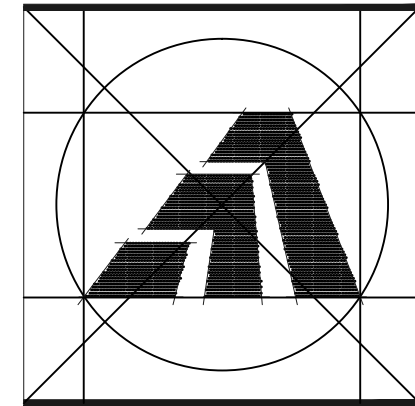
SWITCHES - SPECIFICATION GRADE, 120-277VAC, 20 AMP, SINGLE POLE. COLOR SHALL BE (IVORY) (GRAY) (WHITE) (BROWN) (RED). RECEPTACLE AND SWITCH COVER PLATES SHALL BE (SMOOTH THERMOPLASTIC) (STAINLESS STEEL 302) (IVORY) (RED) (LABELLED EMERGENCY) (WHERE INDICATED).

PANELBOARDS - PANELBOARDS: NEMA PB 1, CIRCUIT BREAKER TYPE, USE EXISTING PANEL AND EXISTING CIRCUIT BREAKER NOTED IN PANEL FOR BOILER CIRCUIT.

IDENTIFICATION - PROVIDE AND INSTALL MARKERS FOR ALL CONDUITS. MARKERS SHALL BE "BRADY" TYPE ADHESIVE-BACKED, PLASTIC-FACED OF SUITABLE COLOR. MARKER SHALL IDENTIFY SYSTEM AND ELECTRICAL CHARACTERISTICS. INSTALL MARKERS AT POINT OF ORIGIN, TERMINATION, ADJACENT TO EACH INTERMEDIATE SPLICE, AND ALL BOXES IN RUN. IDENTIFY ALL CONDUCTORS AT ORIGIN, TERMINATION AND AT INTERMEDIATE BOXES BY MEANS OF "BRADY" TYPE, PRESSURE SENSITIVE, PLASTIC COATED FACE, STICK-ON LABELS EXCEPT FEEDERS SHALL HAVE PHENOLIC TAGS ENGRAVED WITH CIRCUIT DESIGNATIONS AND ATTACHED WITH PLASTIC TIE-WRAPS.

TESTING - UPON COMPLETION OF HIS WORK, CONTRACTOR SHALL CONDUCT (WITH OTHER RELATED CONTRACTORS) OPERATING TESTS OF ALL ELECTRICALLY OPERATED OR CONTROLLED EQUIPMENT FOR APPROVAL AT SUCH TIME AS THE OWNER MAY DIRECT. EQUIPMENT SHALL OPERATE IN ACCORDANCE WITH THE REQUIREMENTS OF DRAWINGS AND SPECIFICATIONS. TESTS SHALL BE PERFORMED IN THE PRESENCE OF OWNER. THE CONTRACTOR SHALL PROVIDE LABOR, MATERIALS, AND INSTRUMENTS REQUIRED FOR ELECTRICAL PORTION OF TESTS. DEFECTIVE MATERIALS AND WORKMANSHIP DISCLOSED BY TEST SHALL BE CORRECTED AT CONTRACTOR'S EXPENSE.

PROTECTIVE PAINTING - TOUCH-UP FACTORY PAINTED EQUIPMENT THAT HAS BEEN DAMAGED DURING HANDLING OR INSTALLATION. FEATHER DAMAGED AREA AND APPLY PRIMER PLUS TWO FRESH COATS TO MATCH EXISTING FINISH.



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Sheet Title:

MEP SPECIFICATIONS

APPLICATION # 5001

WERNER RESIDENCE

34 Elaine Road
Milford, Connecticut 06460

STATE OF CONNECTICUT
DEPARTMENT OF HOUSING
COMMUNITY DEVELOPMENT BLOCK GRANT
DISASTER RECOVERY PROGRAM
(CDBG-DR)



Date:

1/31/5

Job Number:

Drawn By:

Approved By:

RJS/JKH

Sheet Number:

SP-1